Lopi

Answer Wood Stove

Owner's Manual

- **Freestanding Stove**
- **Mobile-Home Approved**
- **Alcove Approved**
- **Hearth-Stove Approved**
- **Masonry Fireplace Insert**
- **Zero-Clearance (Metal) Fireplace Insert**

Save these instructions

for future reference

SAFETY NOTICE:

If this appliance is not properly installed, a house fire may result. For your safety, follow the installation directions. Contact local building or fire officials about restrictions and installation inspection requirements in your area.

TRAVIS INDUSTRIES
HOUSE OF FIRE

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$10.00 100-01166
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O-T L Listed

Tested to: U.L. 1482

Introduction

We welcome you as a new owner of a Lopi Answer wood-burning stove. In purchasing a Lopi Answer you have joined the growing ranks of concerned individuals whose selection of an energy system reflects both a concern for the environment and aesthetics. The Lopi Answer is one of the finest appliances the world over. This manual will explain the installation, operation, and maintenance of this appliance. Please familiarize yourself with the Owner's Manual before operating your appliance and save the manual for future reference. Included are helpful hints and suggestions which will make the installation and operation of your new appliance an easier and more enjoyable experience. We offer our continual support and guidance to help you achieve the maximum benefit and enjoyment from your appliance.

Important Information

No other Lopi Answer appliance has the same serial number as yours. The serial number is stamped onto the label on the back of the appliance.

This serial number will be needed in case you require service of any type.

Model: Lopi Answer ND

Serial Number: _____

Purchase Date: _____

Purchased From: _____

_____

_____

Mail your Warranty Card Today, and Save Your Bill of Sale.

To receive full warranty coverage, you will need to show evidence of the date you purchased your appliance. Do not mail your Bill of Sale to us.

We suggest that you attach your Bill of Sale to this page so that you will have all the information you need in one place should the need for service or information occur.

NATIONAL FIREPLACE INSTITUTE NFI CERTIFIED www.nficertified.org

We suggest that our woodburning hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Woodburning Specialists or who are certified in Canada by Wood Energy Technical Training (WETT).

Wood Energy Technical Training www.wettinc.ca

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Safety Precautions

The viewing door must be closed and latched during operation.

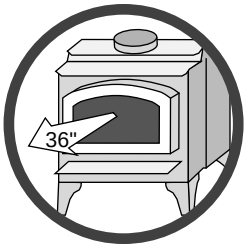
Never block free airflow through the air vents on this appliance.

Gasoline or other flammable liquids must never be used to start the fire or "Freshen Up" the fire. Do not store or use gasoline or other flammable liquids in the vicinity of this appliance.

This appliance is designed and approved for the burning of cord wood only. Do not attempt to burn any other type of fuel other than cord wood in this appliance, it will void all warranties and safety listings.

Ashes must be disposed in a metal container with a tight lid and placed on a non-combustible surface well away from the home or structure.

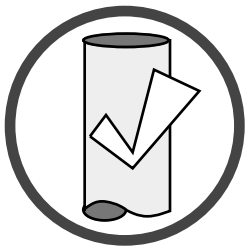
Do not touch the appliance while it is hot and educate all children of the danger of a high-temperature appliance. Young children should be supervised when they are in the same room as the appliance.



Keep furniture, drapes, curtains, wood, paper, and other combustibles a minimum of 36" away from the front of the appliance.

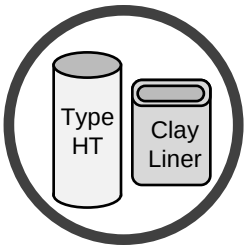
This appliance must be properly installed to prevent the possibility of a house fire. The instructions must be strictly adhered to. Do not use makeshift methods or compromise in the installation.

Contact your local building officials to obtain a permit and information on any installation restrictions or inspection requirements in your area. Notify your insurance company of this appliance as well.



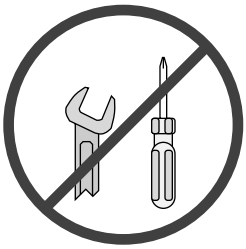
Inspect the chimney connector and chimney at least twice monthly and clean if necessary. Creosote may build up and cause a house fire.

Do not connect this appliance to any chimney serving another appliance.

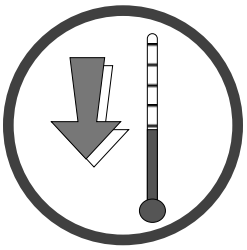


This appliance must be connected to a listed high temperature (UL 103 HT) residential type chimney or an approved masonry chimney with a standard clay tile, or stainless steel liner.

When installed in a mobile home, this appliance must be bolted to the floor, have outside air, and not be installed in the bedroom (Per H.U.D. requirements). Check with local building officials.



Never try to repair or replace any part of this appliance unless instructions are given in this manual. All other work must be done by a trained technician.



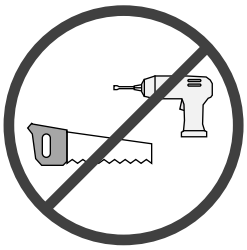
Allow the appliance to cool before carrying out any maintenance or cleaning.

Maintain the door and glass seal and keep them in good condition.

Avoid placing wood against the glass when loading. Do not slam the door or strike the glass.

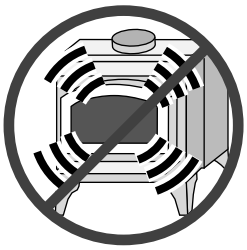
Do not throw this manual away. This manual has important operating and maintenance instructions that you will need at a later time. Always follow the instructions in this manual.

Do not place clothing or other flammable items on or near this appliance.

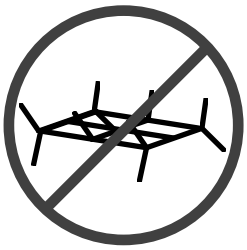


Do not make any changes or modifications to an existing masonry fireplace or chimney to install this appliance.

Do not make any changes to the appliance to increase combustion air.



Overfiring the appliance may cause a house fire. If a unit or chimney connector glows, you are overfiring.



Do not use a grate or other device to elevate the fire off of the firebox floor. Burn the fire directly on the bricks.

Travis Industries, Inc. grants no warranty, implied or stated, for the installation or maintenance of your appliance, and assumes no responsibility of any consequential damage(s).

Installation Options

- Freestanding
- Freestanding in an Alcove
- Freestanding in a Mobile Home
- Masonry Fireplace Insert
- Zero-Clearance (Metal) Fireplace Insert

Features

- EPA Phase II Approved
- 1.6 Cubic Foot Firebox Volume
- Single Operating Control
- Accepts Logs Up to 18" Long
- Steel Plate Construction (1/4" & 3/16")
- Heavy Duty Refractory Firebrick
- Optional High-Tech Blower

Heating Specifications

Approximate Maximum Heating Capacity (in square feet)*	750 to 1,400 (stove)
	750 to 1,200 (insert)
Maximum BTU's per Hour (Cord Wood Calculation)	66,800
Overall Efficiency (Oregon Method)	70.0 %
Maximum Burn Time	Up to 8 Hours

* Heating capacity will vary depending on the home's floor plan, degree of insulation, and the outside temperature. It is also affected by the quality and moisture level of the fuel.

Dimensions

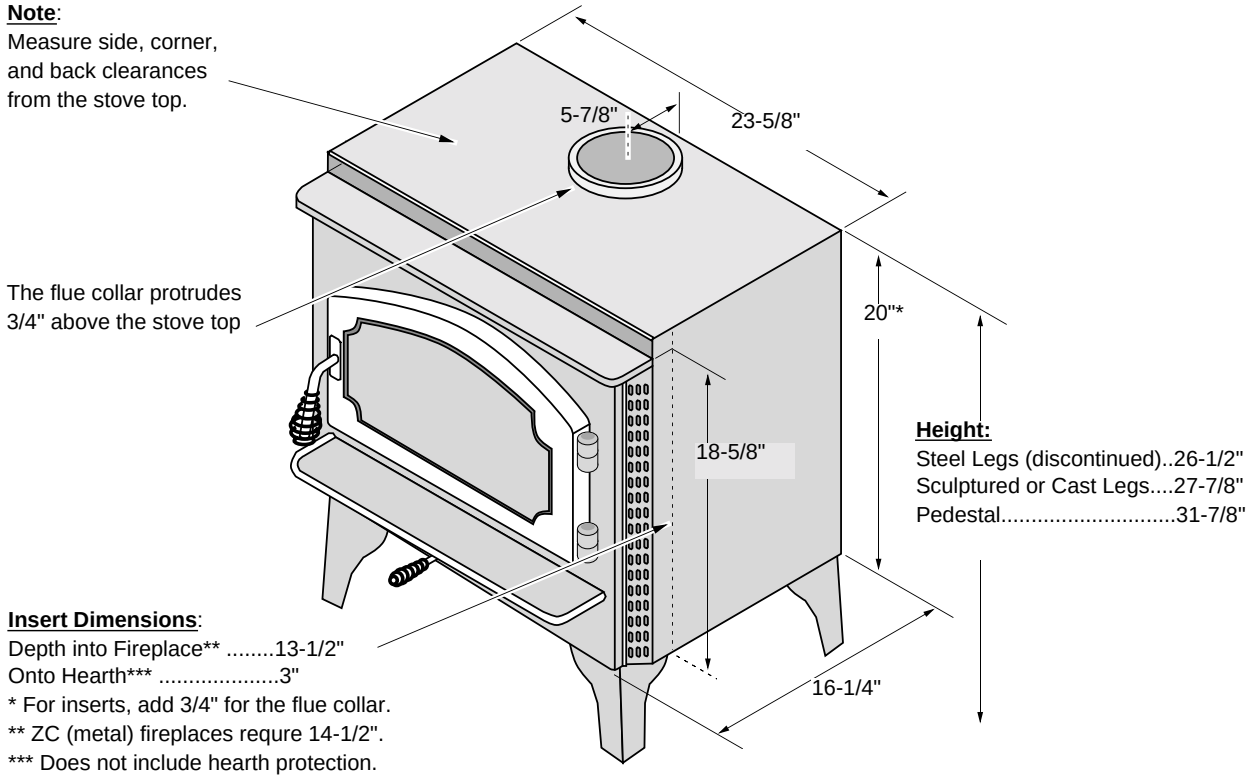


Figure 1

Emissions

4.4 Grams Per Hour (EPA Phase II Approved) – Tests conducted by E.E.S.P.C.

SAFETY NOTICE:

Please read this entire manual before you install and use your new room heater. Failure to follow instructions may result in property damage, bodily injury, or even death. Contact local building or fire officials about restrictions and installation inspection requirements in your area.

Planning The Installation

We suggest that you have an authorized Travis Industries dealer install your stove. If you install the stove yourself, your authorized dealer should review your installation plans.

Check with local building officials for any permits required for installation of this stove and notify your insurance company before proceeding with installation.

Preparation for Installation

- Check for damage to the exterior of the stove (dents should be reported, scratches can be fixed by applying touch up paint).
- Check the interior of the firebox (replace cracked firebrick and make sure baffle is in place).

The stove can be lightened by removing the firebricks and baffle (pg 34) - replace before operation.

Additional Accessories Needed for Installation

- Door Shell (Black 99300195 Brass 99300196 or Pewter 99300197 - see pg 38)
- Legs or Pedestal

Stove Installation Considerations

The table below details the six most common types of installations and the considerations for each type. Alternative methods of installation are available if they comply with local building codes.

Installation Type	Considerations
Standard Ceiling with a Factory Built Chimney (Page 14)	• Requires ceiling and roof penetration • Provides best draft
Cathedral Ceiling with a Factory Built Chimney (Page 14)	• Cathedral style chimney support required • Provides best draft
Exterior Factory Built Chimney (Page 15)	• Uses two elbows to route chimney outside • Exterior chimney is hidden from the room • Elbows reduce draft • Optional exterior chase reduces cold air blockage
Hearth Stove Positive Connection (Page 15)	• Utilizes existing masonry or zero clearance (metal) chimney • Provides good draft due to full reline • Easier to clean than direct or horizontal hearth stove
Hearth Stove Direct Connection (Page 16)	• Utilizes existing masonry or zero clearance (metal) chimney • Requires construction of a "block-off plate" • Draft reduced due to elbows & chimney cross section
Interior Masonry Chimney (Page 16)	• Utilizes existing masonry chimney (not approved for zero clearance (metal) fireplaces)

Floor Protection Requirements

- Stove must be placed on the Travis Industries legs or Pedestal.
- Floor protection must extend 6" to the sides and rear of the stove and 16" to the front of the stove (35-5/8" wide by 38-1/4" deep - see Figure 2 and Figure 3).
- Floor protection must be non-combustible and at least .018" thick (26 guage).

Stove Placement Requirements

Clearances may be reduced by methods specified in NFPA 211, listed wall shields, pipe shields, or other means approved by local building or fire officials.

- Stove must be placed so that no combustibles are within, or can swing within (e.g. drapes, doors), 36" of the front of the stove
- If the stove is placed in a location where the ceiling height is less than 7', it must follow the requirements in the section "Alcove Installation Requirements"
- Must maintain the clearances to combustibles listed below (drywall, furniture, etc.):

Clearances

- The following clearances must be met (see Figure 2 and Figure 3)

Minimum Clearance		Singlewall Connector	Reduced Clearance*
A	Sidewall to stove	18"	13"
B	Backwall to stove	16-1/2”	9"
C	Cornerwall to stove	10"	7-1/2"
D	Connector to sidewall	27"	21-1/2"
E	Connector to backwall	19-1/2"	11-1/2"
F	Connector to cornerwall	19-1/2"	16-1/2"

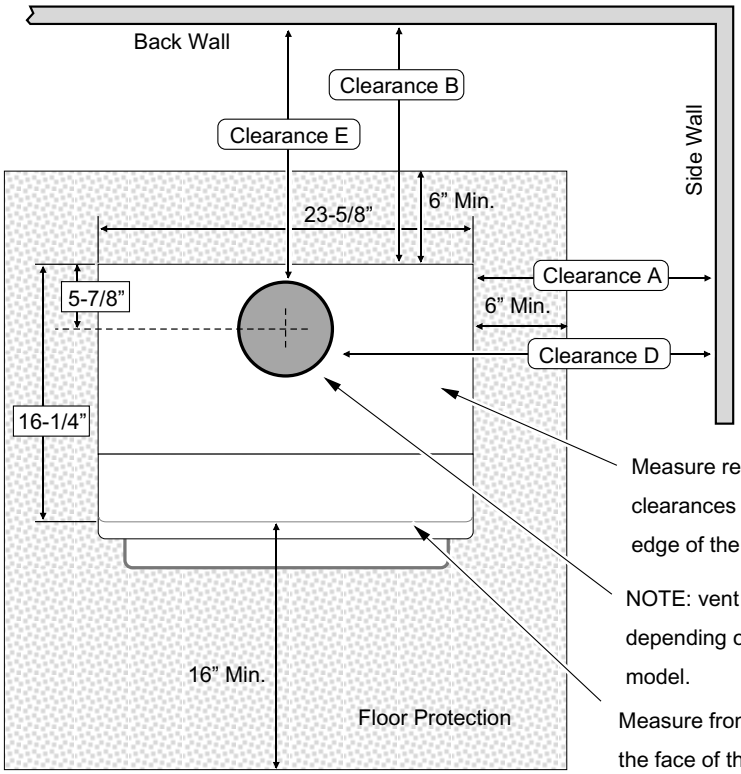
*Reduced clearance installations require one of the chimneys and connectors listed below:

AMERI-TEC model DCC with model HS chimney
DURAVENT model DVL with DURATEC or DURA-PLUS chimney
GSW Super Chimney Twenty-One connected directly to appliance
I.C.C. Excel (2100-2 Can.) (103-HT USA) chimney with HP connector
METALFAB model DW connector with TG chimney
OLIVER MACLEOD PROVENT model PV connector with model 3103 chimney
SECURITY model DP connector with SECURITY model ASHT or S2100 chimney
SELKIRK METALBESTOS model DS connector with model SSII chimney
Standard Masonry Chimney with any one of the above listed connectors

NOTE: Reduced clearance connectors may not connect to the flue collar – an appliance adapter may be required.

NOTE: Standard residential installations with reduced clearance connector may use the clearance determined by the manufacturer of the connector for the connector to wall clearance or the clearance listed in this manual. Offsets must be used to maintain the stove to wall clearance.

Top View - Straight Installation



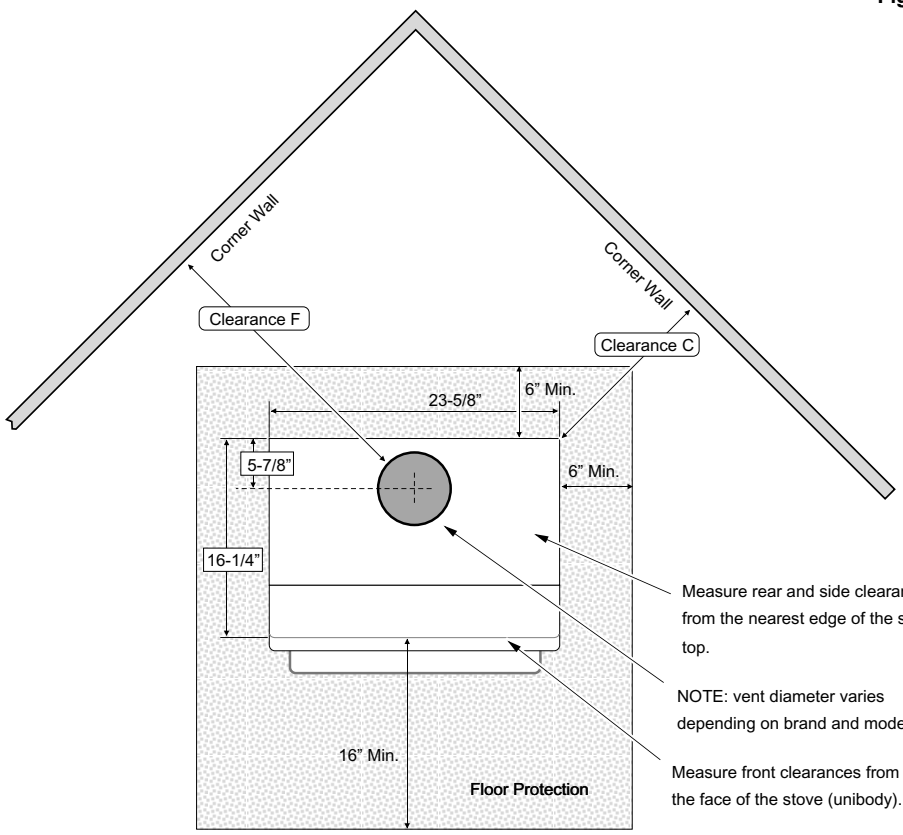
Measure rear and side clearances from the nearest edge of the stove top.

NOTE: vent diameter varies depending on brand and model.

Measure front clearances from the face of the stove (unibody).

Figure 2

Top View - Corner Installation



Measure rear and side clearances from the nearest edge of the stove top.

NOTE: vent diameter varies depending on brand and model.

Measure front clearances from the face of the stove (unibody).

Figure 3

Chimney Requirements

- DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE.
- Chimney connector must be a minimum 24 MSG black or 26 MSG blued steel (6" diameter). Chimney must be used from the first floor or wall penetration to the chimney cap.
- Use 6" diameter type UL 103 HT chimney from one manufacturer (do not mix brands) or code approved masonry chimney with a flue liner.
- Chimney connector and chimney must be fastened to the stove and each adjoining section.
- Follow the chimney manufacturer's clearances and requirements.
- Use the chimney manufacturer's fire stops, attic guards, roof supports, and flashings when passing through a ceiling or thimble when passing through a combustible wall.
- No more than 180° of elbows (two 90° elbows, or two 45° & one 90° elbow, etc.).
- NOTE: Additional elbows may be allowed if draft is sufficient. Whenever elbows are used the draft is adversely affected. Additional chimney height may be required to boost draft.

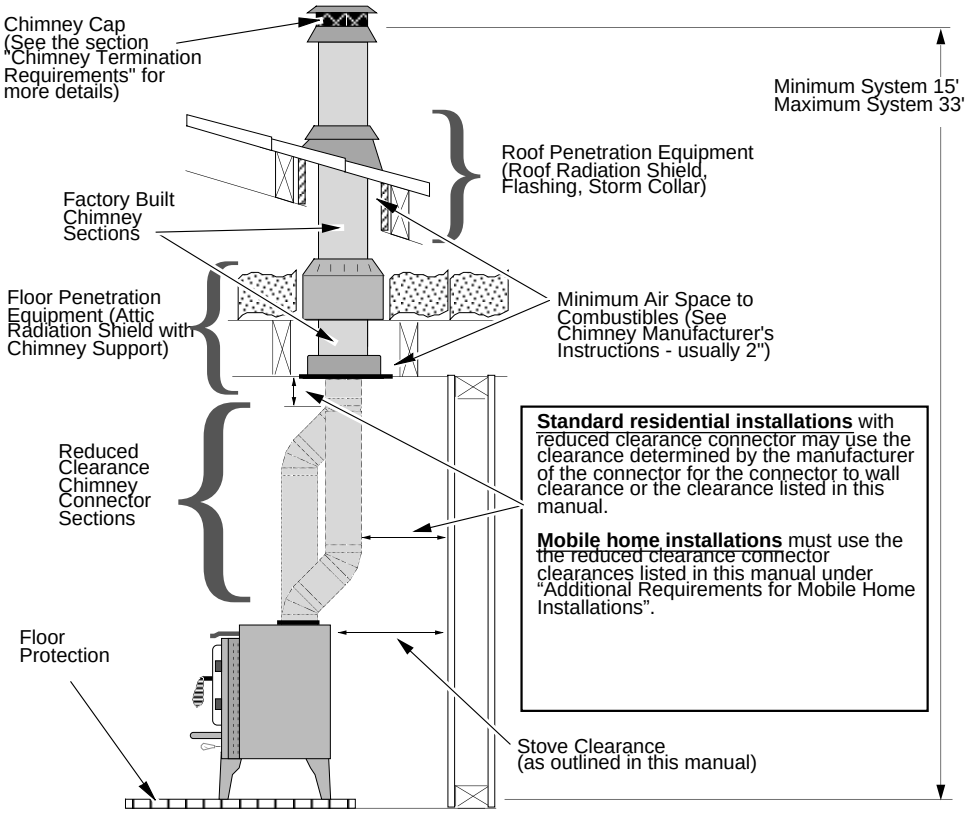

Chimney Cap
(See the section "Chimney Termination Requirements" for more details)
Minimum System 15'
Maximum System 33'
Roof Penetration Equipment (Roof Radiation Shield, Flashing, Storm Collar)
Factory Built Chimney Sections
Floor Penetration Equipment (Attic Radiation Shield with Chimney Support)
Minimum Air Space to Combustibles (See Chimney Manufacturer's Instructions - usually 2")
Reduced Clearance Chimney Connector Sections
Standard residential installations with reduced clearance connector may use the clearance determined by the manufacturer of the connector for the connector to wall clearance or the clearance listed in this manual.
Mobile home installations must use the the reduced clearance connector clearances listed in this manual under "Additional Requirements for Mobile Home Installations".
Floor Protection
Stove Clearance (as outlined in this manual)

Figure 4

Drafting Performance	This appliance relies upon natural draft to operate. External forces, such as wind, barometric pressure, topography, or factors of the home (negative pressure from exhaust fans, chimneys, air infiltration, etc.), may adversely affect draft. Travis Industries can not be responsible for external forces leading to less than optimal performance.

Standard residential installations may use single-wall connector (Mobile-Homes may **not**)

- Standard residential installations with reduced clearance connector may use the clearance determined by the manufacturer of the connector for the connector to wall clearance or the clearance listed in this manual. Offsets must be used to maintain the stove to wall clearance. Mobile homes must use the clearances listed in this manual under "Additional Requirements for Mobile Home Installations".

Chimney Termination Requirements

- Must have an approved cap (to prevent water from entering)
- Must not be located where it will become plugged by snow or other material
- Must terminate at least 3' above the roof **and** at least 2' above any portion of the roof within 10' (see Figure 5)

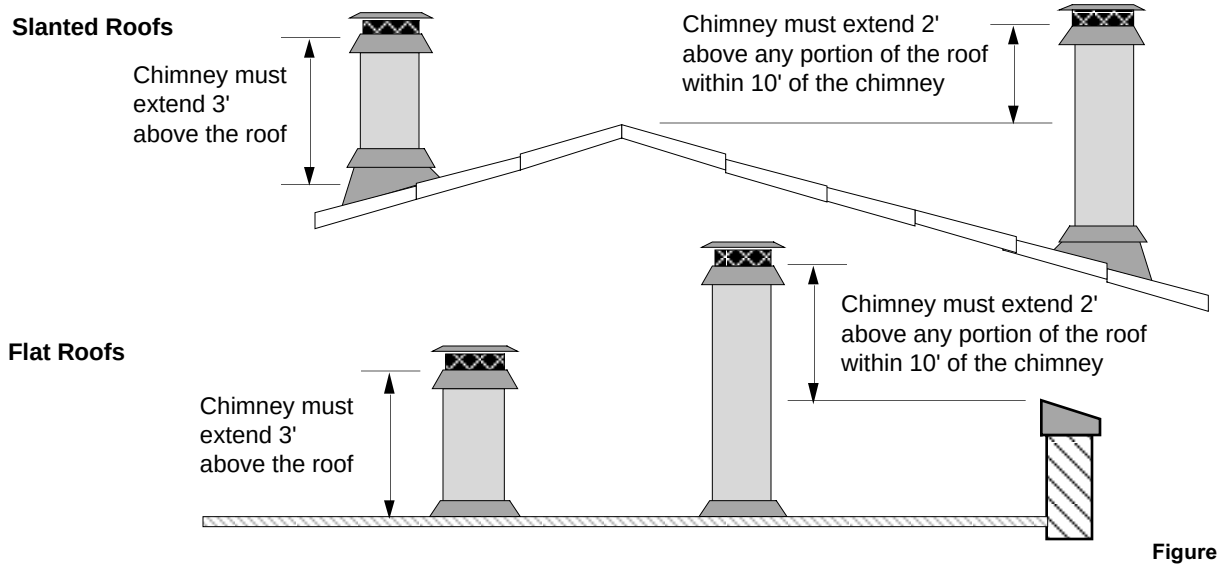

Slanted Roofs
Chimney must extend 3' above the roof
Chimney must extend 2' above any portion of the roof within 10' of the chimney
Flat Roofs
Chimney must extend 3' above the roof
Chimney must extend 2' above any portion of the roof within 10' of the chimney

Figure 5

Outside Air Requirements

- Required for mobile homes & in certain localities (check with building officials)
- Must not be drawn from an enclosed space (garage, unventilated crawl space)
- Requires the optional outside air boot (for legs) or pedestal.

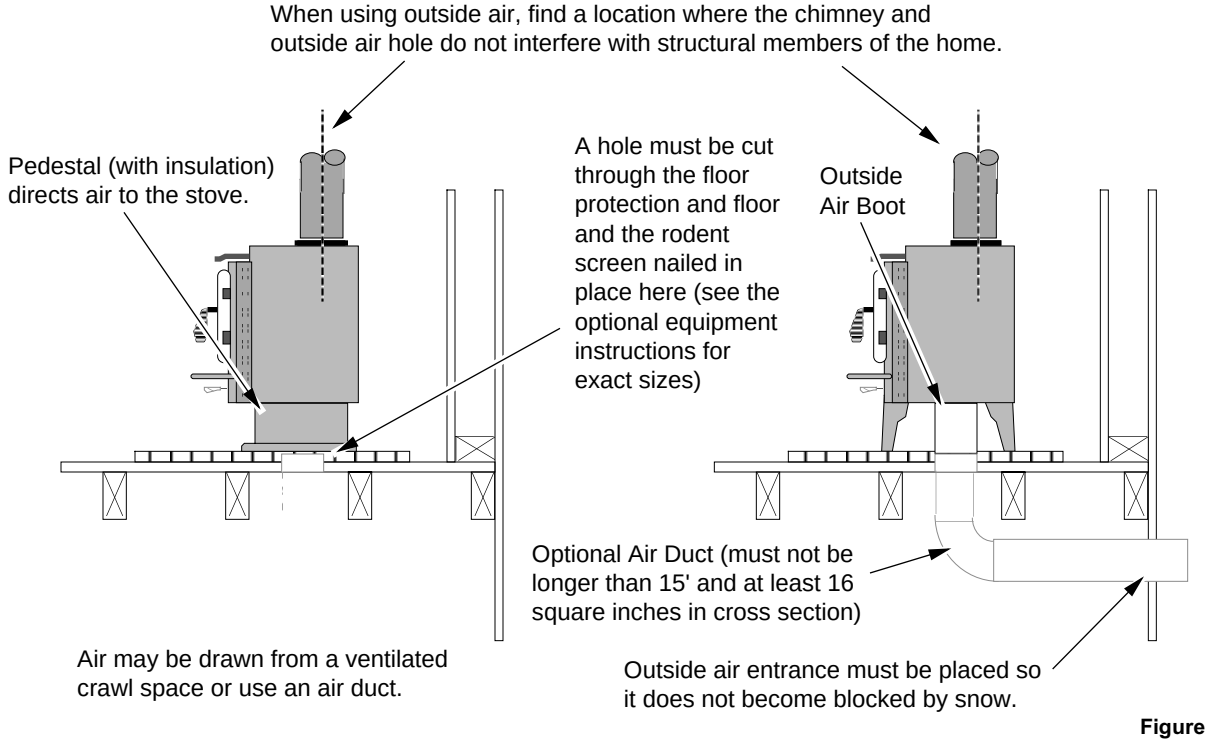

When using outside air, find a location where the chimney and outside air hole do not interfere with structural members of the home.
Pedestal (with insulation) directs air to the stove.
A hole must be cut through the floor protection and floor and the rodent screen nailed in place here (see the optional equipment instructions for exact sizes)
Outside Air Boot
Optional Air Duct (must not be longer than 15' and at least 16 square inches in cross section)
Air may be drawn from a ventilated crawl space or use an air duct.
Outside air entrance must be placed so it does not become blocked by snow.

Figure 6

Alcove Installation Requirements

Whenever the stove is placed in a location where the ceiling height is less than 7' tall, it is considered an alcove installation. Because of the reduced height, the special installation requirements listed below must be met.

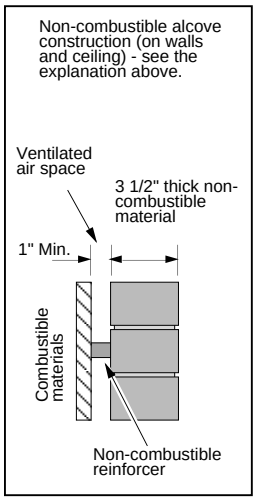
- Chimney connector and chimney must be one of the following types:

  AMERI-TEC model DCC with model HS chimney
  DURAVENT model DVL with DURATEC or DURA-PLUS chimney
  GSW Super Chimney Twenty-One connected directly to appliance
  I.C.C. Excel (2100-2 Can.) (103-HT USA) chimney with HP connector
  METALFAB model DW connector with TG chimney
  OLIVER MACLEOD PROVENT model PV connector with model 3103 chimney
  SECURITY model DP connector with SECURITY model ASHT or S2100 chimney
  SELKIRK METALBESTOS model DS connector with model SSII chimney
  Standard Masonry Chimney with any one of the above listed connectors

  NOTE: Reduced clearance connectors may not connect to the flue collar – an appliance adapter may be required.

- Alcoves are classified as combustible or non-combustible. Non-combustible alcoves must have walls and a ceiling that are 3 1/2" thick of a non-combustible material (brick, stone, or concrete - see Figure 7). This non-combustible material must be spaced and ventilated at least 1" off of all combustible materials (walls, ceiling, etc.) to allow air to move around the non-combustible walls and ceiling. All other alcoves are considered combustible. The clearances below must be met:

Minimum Clearance (See the Figure 7 **below)**		**Combustible Alcove**	**Non-Combustible Alcove**
A	Sidewall to stove	13"	6"
B	Backwall to stove	9"	2"
D	Connector to sidewall	21-1/2"	14-1/2"
E	Connector to backwall	11-1/2"	4-1/2"
G	Maximum depth of alcove	48"	48"
H	Minimum width of alcove	49-5/8"	35-5/8"
J	Minimum height of alcove	84"	6" above stove top


Non-combustible alcove construction (on walls and ceiling) - see the explanation above.
Ventilated air space
3 1/2" thick non-combustible material
1" Min.
Combustible materials
Non-combustible reinforcer

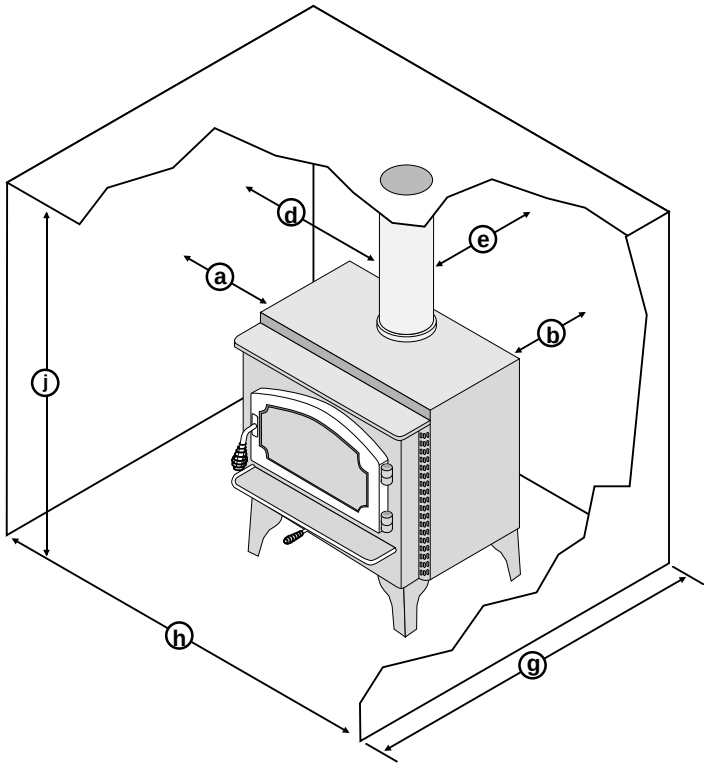


Figure 7

Mobile Home Requirements

- Outside air must be installed - see "Outside Air Requirements" on page 11
- Chimney connector and chimney must be one of the following types:

  AMERI-TEC model DCC with model HS chimney
  DURAVENT model DVL with DURATEC or DURA-PLUS chimney
  GSW Super Chimney Twenty-One connected directly to appliance
  I.C.C. Excel (2100-2 Can.) (103-HT USA) chimney with HP connector
  METALFAB model DW connector with TG chimney
  OLIVER MACLEOD PROVENT model PV connector with model 3103 chimney
  SECURITY model DP connector with SECURITY model ASHT or S2100 chimney
  SELKIRK METALBESTOS model DS connector with model SSII chimney
  Standard Masonry Chimney with any one of the above listed connectors

  NOTE: Reduced clearance connectors may not connect to the flue collar – an appliance adapter may be required.

- Stove placement must maintain the following clearances to combustibles (drywall, furniture, etc.)

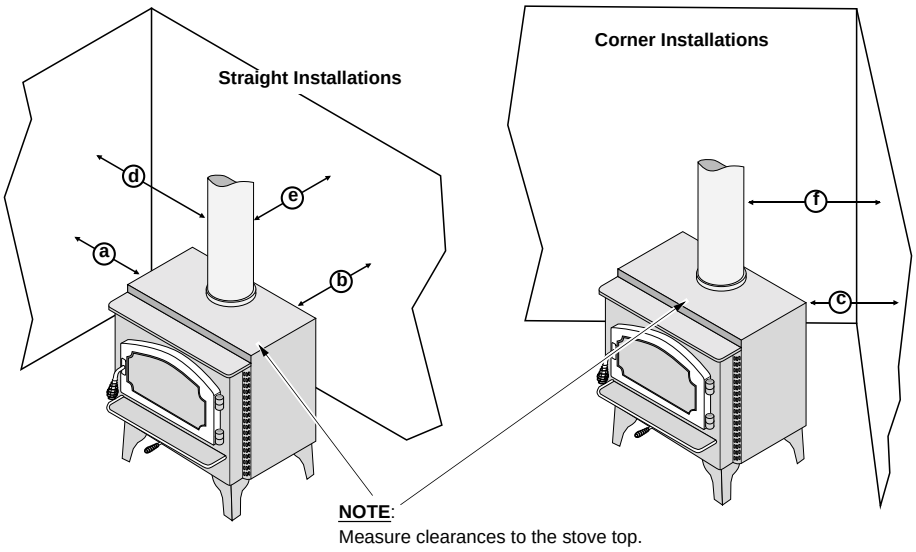


Figure 8

Minimum Clearance (See the illustration above)		Reduced Clearance Connector
A	Sidewall to stove	13"
B	Backwall to stove	9"
C	Cornerwall to stove	7-1/2"
D	Connector to sidewall	21-1/2"
E	Connector to backwall	11-1/2"
F	Connector to cornerwall	16-1/2"

- If using offsets, use the connector clearance listed in Figure 9, **not the connector manufacturer's clearance**.
- The appliance must be secured to the floor (consult your building official). Secure the outside air boot to the floor and stove to insure the stove does not dislocate.
- Mobile home installations require a spark arrester at the chimney termination.
- The appliance must be grounded to the chassis of the mobile home (consult your building official).
- **WARNING:DO NOT INSTALL IN SLEEPING ROOM.**
- **CAUTION:THE STRUCTURAL INTEGRITY OF THE MOBILE HOME FLOOR, WALL, AND CEILING/ROOF MUST BE MAINTAINED.**

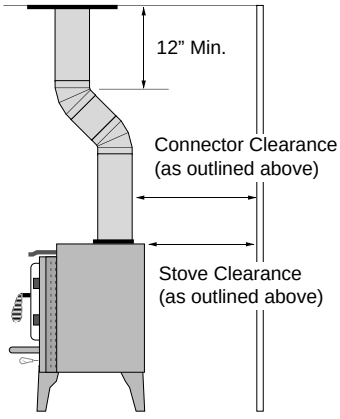


Figure 9

Standard Ceiling with a Factory Built Chimney

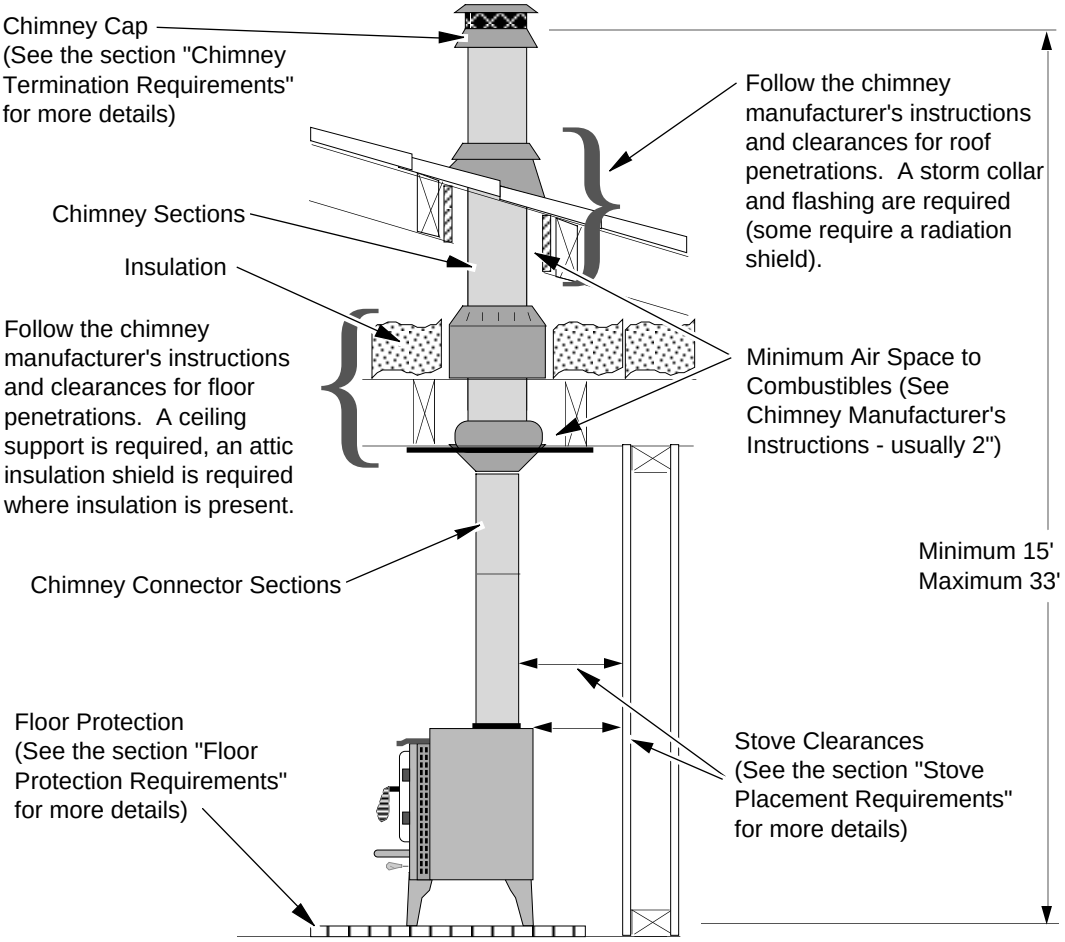

Chimney Cap
(See the section "Chimney Termination Requirements" for more details)
Chimney Sections
Insulation
Follow the chimney manufacturer's instructions and clearances for floor penetrations. A ceiling support is required, an attic insulation shield is required where insulation is present.
Chimney Connector Sections
Floor Protection
(See the section "Floor Protection Requirements" for more details)
Follow the chimney manufacturer's instructions and clearances for roof penetrations. A storm collar and flashing are required (some require a radiation shield).
Minimum Air Space to Combustibles (See Chimney Manufacturer's Instructions - usually 2")
Minimum 15'
Maximum 33'
Stove Clearances
(See the section "Stove Placement Requirements" for more details)

Figure 10

Cathedral Ceiling with a Factory Built Chimney

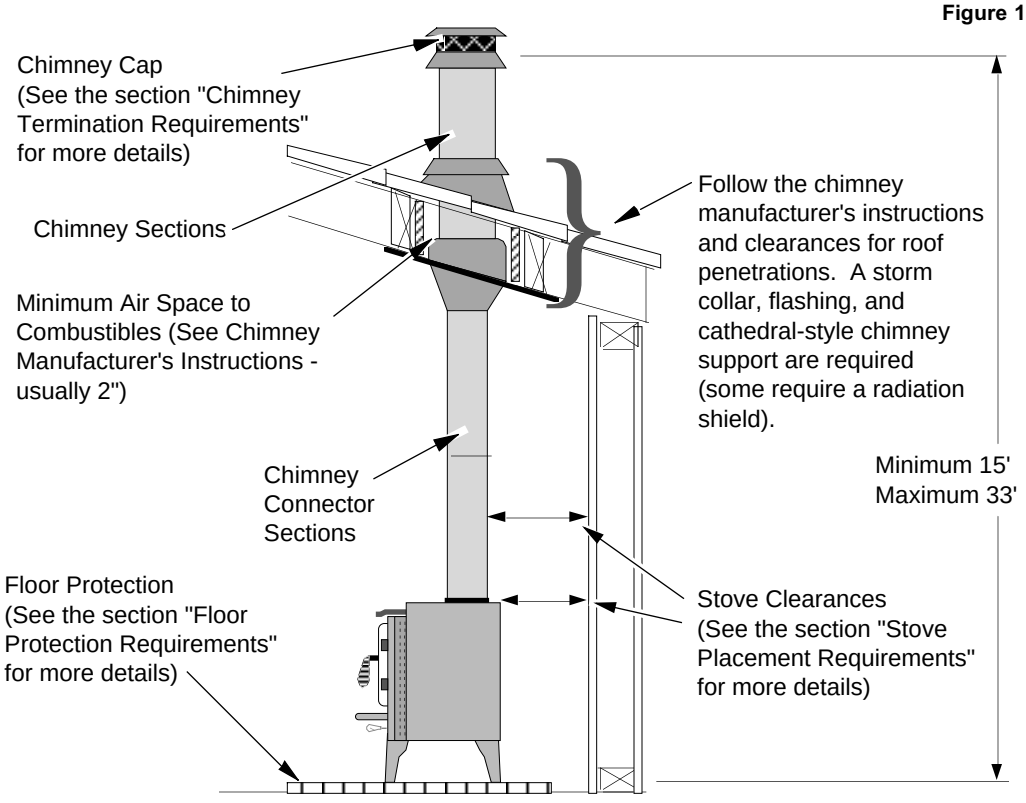

Chimney Cap
(See the section "Chimney Termination Requirements" for more details)
Chimney Sections
Minimum Air Space to Combustibles (See Chimney Manufacturer's Instructions - usually 2")
Chimney Connector Sections
Floor Protection
(See the section "Floor Protection Requirements" for more details)
Follow the chimney manufacturer's instructions and clearances for roof penetrations. A storm collar, flashing, and cathedral-style chimney support are required (some require a radiation shield).
Minimum 15'
Maximum 33'
Stove Clearances
(See the section "Stove Placement Requirements" for more details)

Figure 11

Exterior Factory Built Chimney

NOTE:

Exterior chimneys are subject to greater moisture and creosote accumulation due to the lower temperatures. An insulated chase will reduce these accumulations (the proper clearances to the chimney must be maintained).

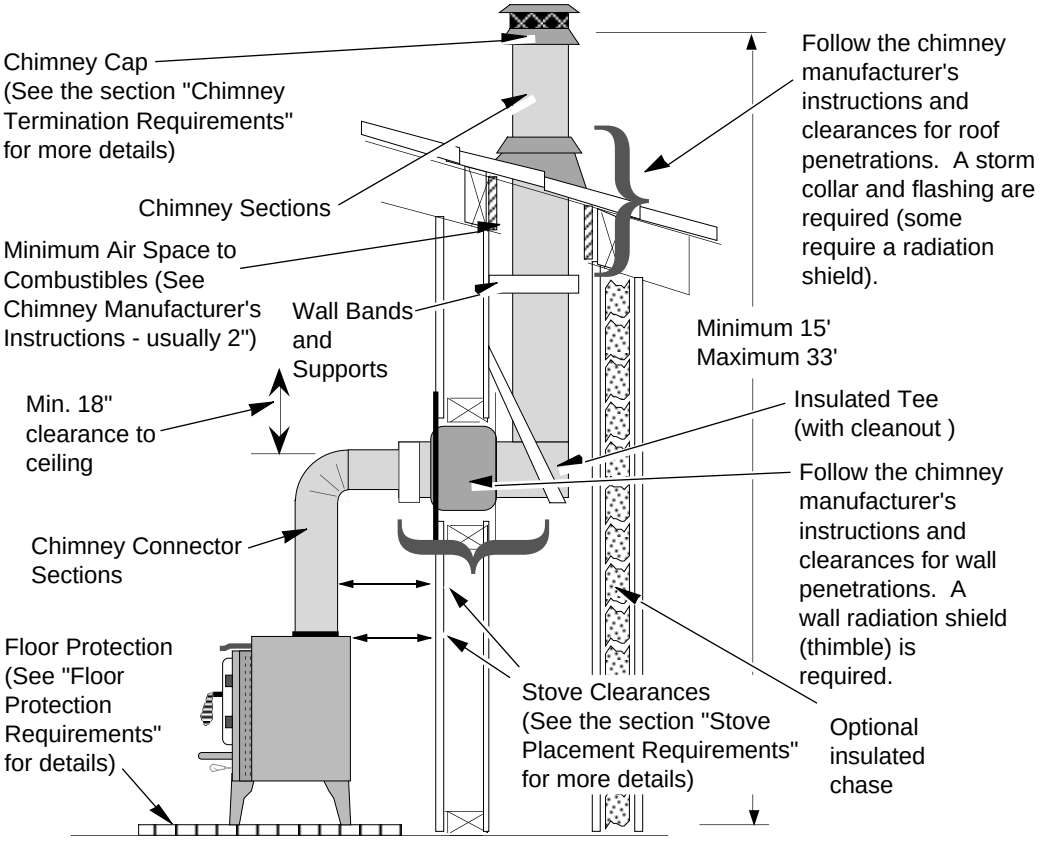

Chimney Cap
(See the section "Chimney Termination Requirements" for more details)
Chimney Sections
Minimum Air Space to Combustibles (See Chimney Manufacturer's Instructions - usually 2")
Wall Bands and Supports
Min. 18" clearance to ceiling
Chimney Connector Sections
Floor Protection (See "Floor Protection Requirements" for details)
Follow the chimney manufacturer's instructions and clearances for roof penetrations. A storm collar and flashing are required (some require a radiation shield).
Minimum 15'
Maximum 33'
Insulated Tee (with cleanout)
Follow the chimney manufacturer's instructions and clearances for wall penetrations. A wall radiation shield (thimble) is required.
Stove Clearances (See the section "Stove Placement Requirements" for more details)
Optional insulated chase

Figure 12

Hearth Stove Positive Connection

NOTE:

Most factory-built chimney manufacturers make stainless steel chimney liners, either flexible or rigid. This provides a wide variety of installation options. Make sure to follow the manufacturer's instructions for installation and support.

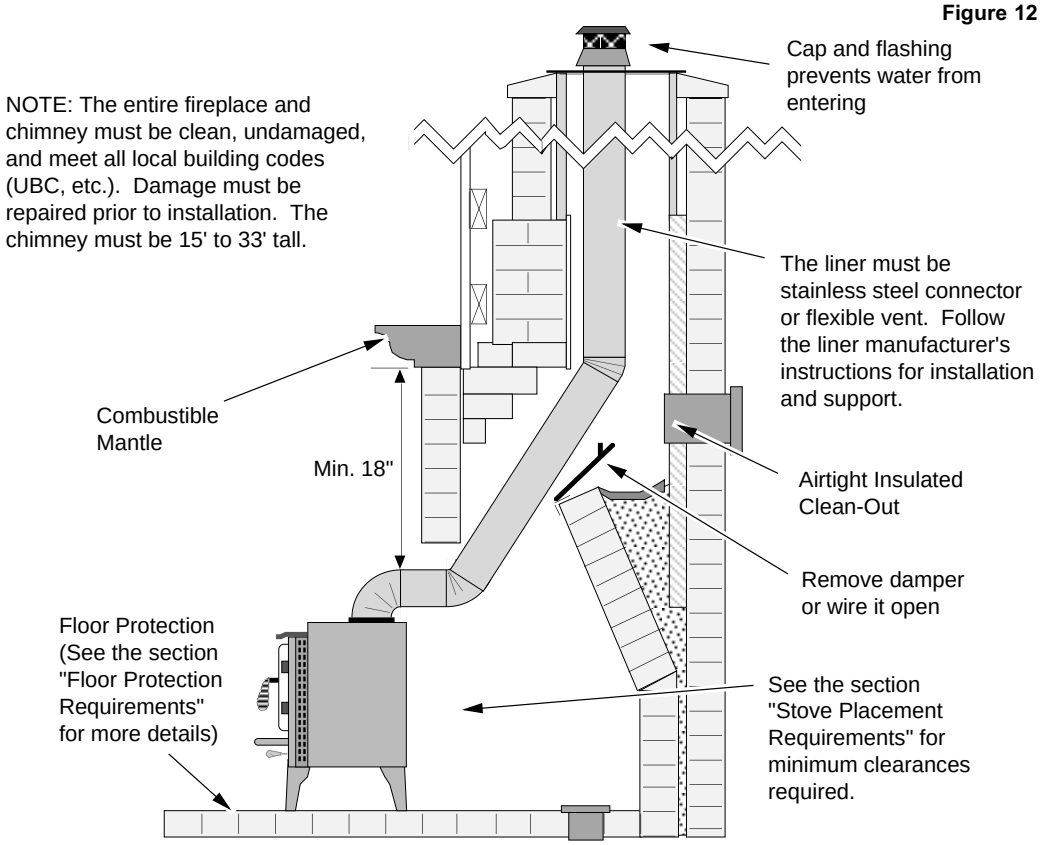

NOTE: The entire fireplace and chimney must be clean, undamaged, and meet all local building codes (UBC, etc.). Damage must be repaired prior to installation. The chimney must be 15' to 33' tall.
Cap and flashing prevents water from entering
The liner must be stainless steel connector or flexible vent. Follow the liner manufacturer's instructions for installation and support.
Combustible Mantle
Min. 18"
Airtight Insulated Clean-Out
Remove damper or wire it open
Floor Protection (See the section "Floor Protection Requirements" for more details)
See the section "Stove Placement Requirements" for minimum clearances required.

Figure 13

Hearth Stove Direct Connection

NOTE:

Direct connections require installation of an airtight, non-combustible block-off plate or damper adapter.

NOTE: The chimney must have a clay tile liner. If it does not, the installation must use a positive connection (full reline). The entire fireplace and chimney must be clean, undamaged, and meet all local building codes (UBC, etc.). Damage must be repaired prior to installation. The chimney must be 15' to 33' tall.

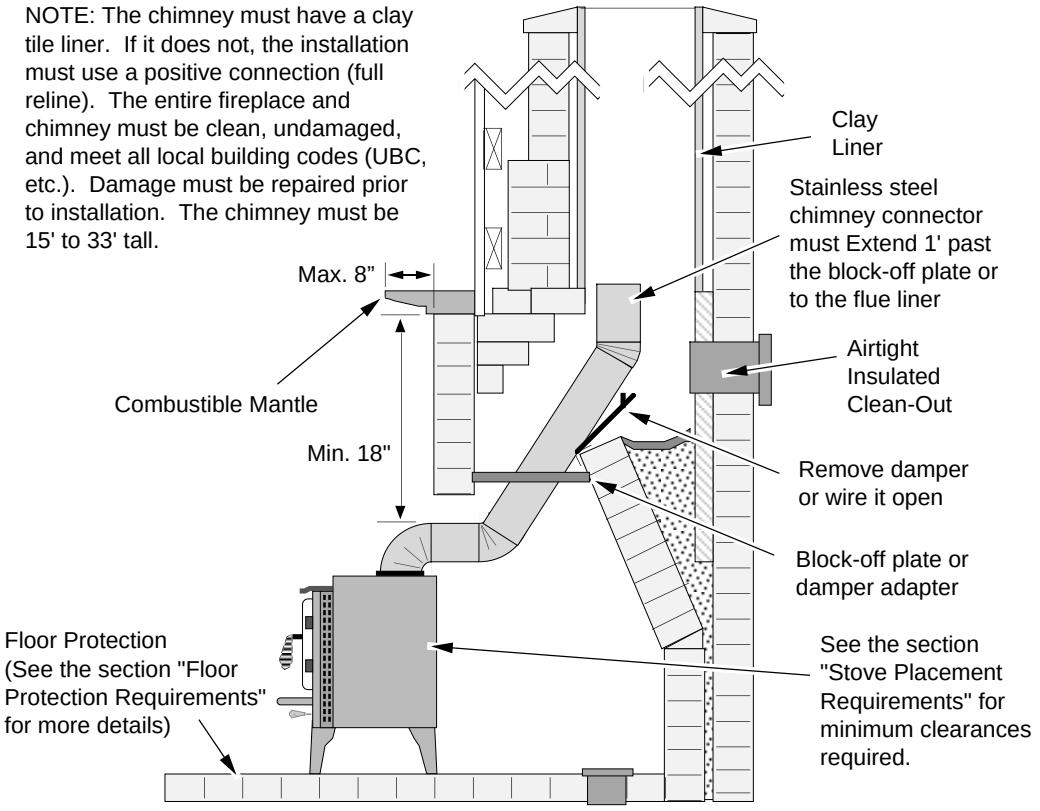

Clay Liner
Stainless steel chimney connector must Extend 1' past the block-off plate or to the flue liner
Max. 8”
Airtight Insulated Clean-Out
Combustible Mantle
Min. 18"
Remove damper or wire it open
Block-off plate or damper adapter
Floor Protection (See the section "Floor Protection Requirements" for more details)
See the section "Stove Placement Requirements" for minimum clearances required.

Figure 14

Interior or Exterior Masonry Chimney

NOTE:

This type of installation requires a UBC approved masonry connector or a factory built (U.L. Listed) wall thimble.

NOTE: The chimney must have a clay tile liner. If it does not, the installation must use a positive connection (full reline). The entire fireplace and chimney must be clean, undamaged, and meet all local building codes (UBC, etc.). Damage must be repaired prior to installation. The chimney must be 15' to 33' tall.

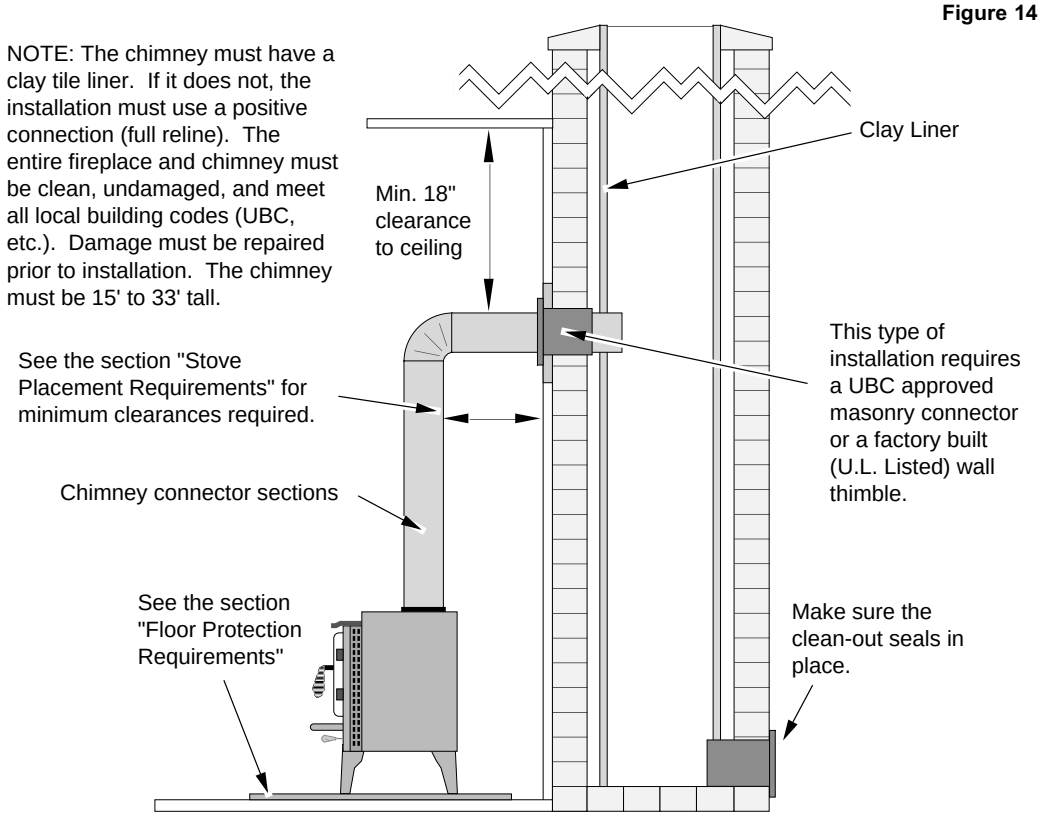

Clay Liner
Min. 18" clearance to ceiling
This type of installation requires a UBC approved masonry connector or a factory built (U.L. Listed) wall thimble.
See the section "Stove Placement Requirements" for minimum clearances required.
Chimney connector sections
See the section "Floor Protection Requirements"
Make sure the clean-out seals in place.

Figure 15

SAFETY NOTICE:

Please read this entire manual before you install and use your new room heater. Failure to follow instructions may result in property damage, bodily injury, or even death. Contact local building or fire officials about restrictions and installation inspection requirements in your area.

Planning The Installation

We suggest that you have an authorized Travis Industries dealer install your fireplace insert. If you install the fireplace insert yourself, your authorized dealer should review your installation plans.

Check with local building officials for any permits required for installation of this fireplace insert and notify your insurance company before proceeding with installation.

Preparation for Installation

- Check for damage to the exterior of the fireplace insert (dents should be reported, scratches can be fixed by applying touch up paint).
- Check the interior of the firebox (replace cracked firebrick and make sure baffle is in place).

The fireplace insert can be lightened by removing the firebricks and baffle (pg 34) - replace before operation.

Additional Accessories Needed for Installation

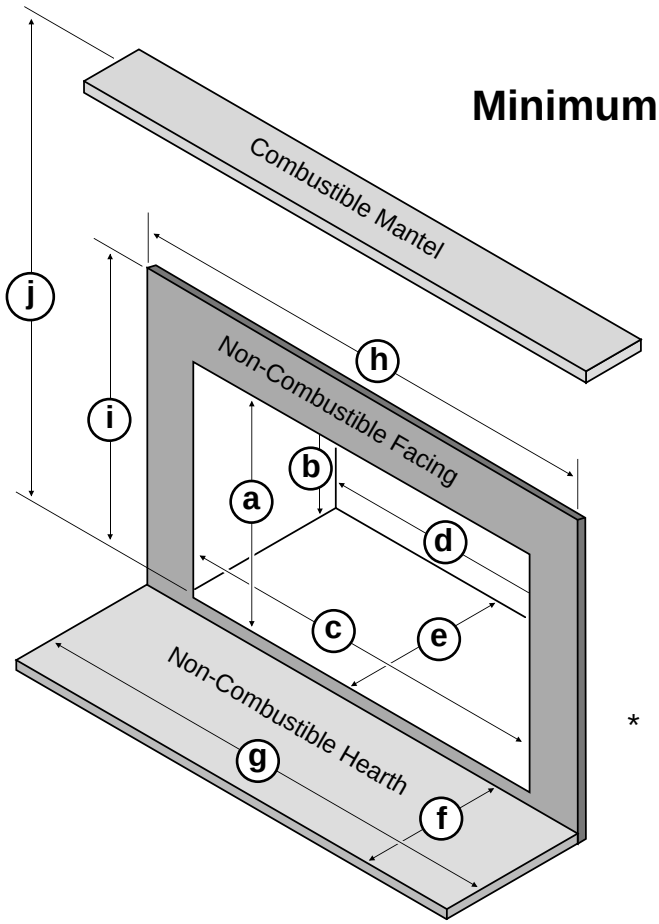
- Door Shell (Black 99300195 Brass 99300196 or Pewter 99300197 - see 38)
- Surround Panels (see page 44)

Installation Considerations

Installation Type	**Considerations**
Insert with Positive Flue (Full Reline) (Page 22)	• Utilizes existing masonry or zero clearance fireplace • Provides best draft • Easiest to clean
Insert with Direct Connect Flue (Page 22 and 23)	• Utilizes existing masonry or zero clearance fireplace • Provides good draft • Requires fireplace block-off plate - see page 21
Insert with Face Seal Connection (Page 23) **NOTE**: Before installing verify with local building officials that this type of installation is approved in your area.	• Utilizes existing masonry fireplaces with cross section of 28" to 144" (**not approved for zero clearance fireplaces**) • Provides okay draft • Easiest to install • Requires the optional surround panels and insulation (see "Surround Panels" on page 44).

Fireplace Requirements

Figure 16 shows the minimum size requirements for the type of fireplace used.



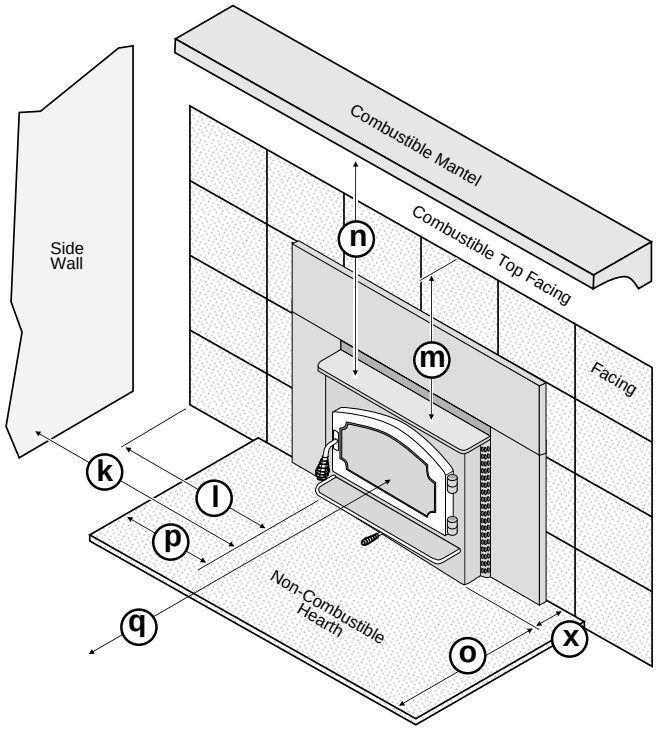
Minimum Fireplace Size		Masonry Fireplace	Z.C. (Metal) Fireplace
a	Height (front)	20-3/4"	20-3/4"
b	Height (rear)	20-3/4"	20-3/4"
c	Width (front)	23-5/8"	25-5/8"
d	Width (rear)	23-5/8"	25-5/8"
e	Depth	13-1/2"	14-1/2"
f	Hearth Depth*	19"	19"
g	Hearth Width	39-5/8"	39-5/8"
h	Facing Width	42-5/8"	47-5/8"
i	Facing Height	32"	32"
j	Mantel Height	35-1/2"	44"

* This is the distance the insert protrudes from the fireplace opening plus the required 16" of hearth extension.

Figure 16

Insert Placement Requirements

- The insert must be placed so that no combustibles are within, or can swing within (e.g. drapes, doors), 36" of the front of the insert
- Insert and hearth must be installed on a level, secure floor
- The minimum clearances, facing, and hearth requirements in Figure 17 must be met (follow the clearances for the type of fireplace being used - either masonry or zero-clearance).



Minimum Clearances		Masonry Fireplace	ZC (Metal) Fireplace
k	Sidewall to Insert	13"	30"
l	Side Facing	9-1/2"	12"
m	Top Facing	12"	12"
n	Mantel to Insert	15-1/2"	24"
o	Hearth (Front)*	16"	16"
p	Hearth (Side)	8"	8"
q	Front of Insert	36"	36"
x	Extension onto Hearth	3"	3"

* Does not include the distance the insert extends onto the hearth (dimension "x").

Figure 17

Hearth Requirements

- Must extend 16" in front of the insert and 8" on both sides (min. 19" deep by 39-5/8" wide)
- Must be non-combustible and at least .018" thick (26 gauge)

Masonry Fireplace Requirements

- Chimney must have a clay tile liner or a stainless steel liner (positive connection)
- Entire fireplace, including chimney, must be clean and undamaged. Any damage must be repaired prior to installation of the insert
- Chimney height: 15' minimum; 33' maximum.
- Entire fireplace, including chimney, must meet local building requirements

Zero-Clearance (Metal) Fireplace Requirements

- Must utilize a positive (full reline) or direct connection (block-off plate)
- Must be manufactured by one of the following manufacturers:
  • Marco • Majestic • Heatilator • Preway • Tempco • Superior
- Entire fireplace, including chimney, must be clean and undamaged. Any damage must be repaired prior to installation of the insert
- Entire fireplace, including chimney, must meet local building requirements
- Chimney height: 15' minimum; 33' maximum. Minimum cross section: 28.65 square inches
- The damper ("A") and grate ("B") must be removed (see Figure 18). The smoke shelf ("C"), internal baffles ("D"), screen ("E"), and metal or glass doors ("F") may be removed (if applicable). The masonry lining ("G"), insulation ("H"), and any structured rigid frame members (metal sides, floor, door frame, face of the fireplace, etc. – "I") may not be removed or altered

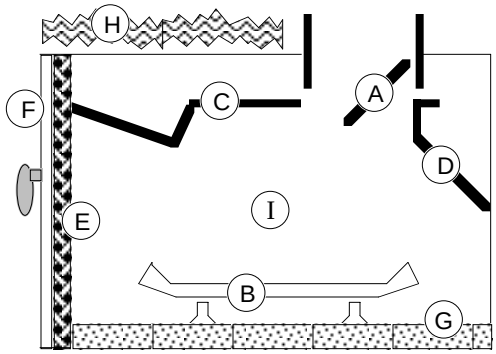


Figure 18

Drafting Performance

This appliance relies upon natural draft to operate. External forces, such as wind, barometric pressure, topography, or factors of the home (negative pressure from exhaust fans, chimneys, air infiltration, etc.), may adversely affect draft. Travis Industries can not be responsible for external forces leading to less than optimal performance.

Leveling Bolt Installation

Two leveling bolts are included to level the insert if the fireplace has a stepped-up hearth. To install, raise the rear of the insert up and insert the leveling bolts into the holes in the rear corners of the insert. Adjust the bolts until they extend the same height as the hearth steps up. After the insert is installed, fine-tune the leveling bolts to level the insert (see Figure 19).

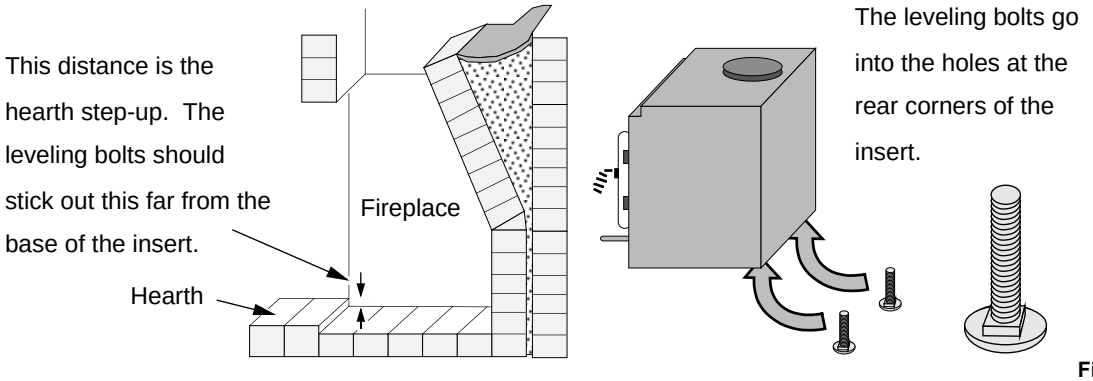

This distance is the hearth step-up. The leveling bolts should stick out this far from the base of the insert.
Fireplace
Hearth
The leveling bolts go into the holes at the rear corners of the insert.

Figure 19

Block-Off Plate Installation

Whenever this appliance is installed with a direct connection a block-off plate, or other non-combustible seal-off device (e.g. damper adapter), will need to be installed. This device is used to seal the chimney, insuring no smoke enters the home and providing the chimney system with a seal to promote draft. The directions below detail the steps for construction and installation of a block-off plate.

- Determine a location for the block-off plate at the top of the firebox below the damper area (make it high enough to allow installation of the connection pipe). The location should be level and in an area where it can be mounted easily. Measure the width at the rear ("A") and front ("B") of the firebox at the height where the block-off plate will be installed (see Figure 20). Then measure the depth of the location where the block-off plate will be installed ("C").
  NOTE: Most masonry fireplaces have square fireboxes while certain zero-clearance (metal) fireplaces often have domed firebox tops. This makes zero-clearance block-off plates more difficult to install. To simplify the procedure, insulation may be used to seal the rounded edges.
- Make a cardboard template of the measurements, but add a 2" flange to each side. This flange will be used to mount the block-off plate to the inside of the firebox. Bend the flanges downwards on the template and place it inside the fireplace. If the template fits correctly in its planned location, go to the next step. If it does not, make a new template with the appropriate corrections until it fits correctly.
- With the template in place, mark the location of the flue (see “Dimensions” on page 6). This location approximates the center of the flue when the insert is in place (a slight offset may occur based upon insert and block-off plate placement). Remove the template and cut a 6 1/4" diameter hole centered on this mark.
- Make the block-off plate of 24 gage or thicker steel to match the template. Drill two holes in each flange for mounting the plate.
- Mount the block-off plate using masonry screws.
  NOTE: Use sheet metal screws on zero-clearance (metal) fireplaces (screws need only be long enough to penetrate the first layer of metal).
- Insulate the block-off plate using high-temperature fiberglass insulation (Kaowool® or equivalent) and furnace cement (allow the cement to dry for at least 24 hours before burning).
- After placing the appliance and installing the pipe through the block-off plate, use high-temperature fiberglass insulation and furnace cement to seal any cracks between the pipe and block-off plate.

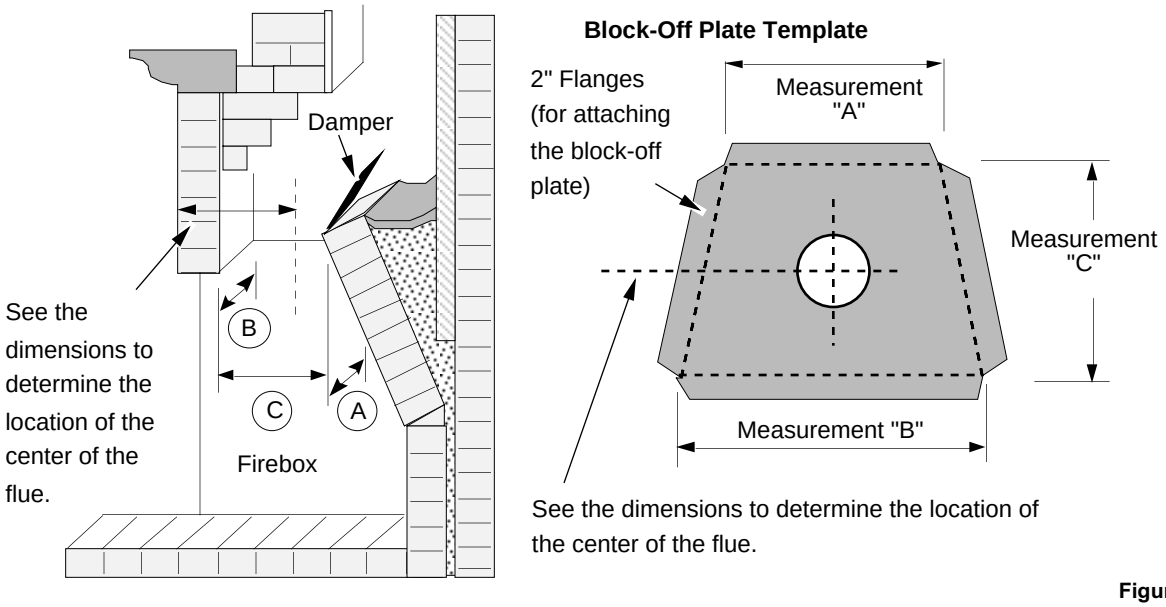


Figure 20

Insert with Positive Connection

NOTE:

Most factory-built chimney manufacturers make stainless steel chimney liners, either flexible or rigid. This provides a wide variety of installation options. Make sure to follow the manufacturer's instructions for installation and support.

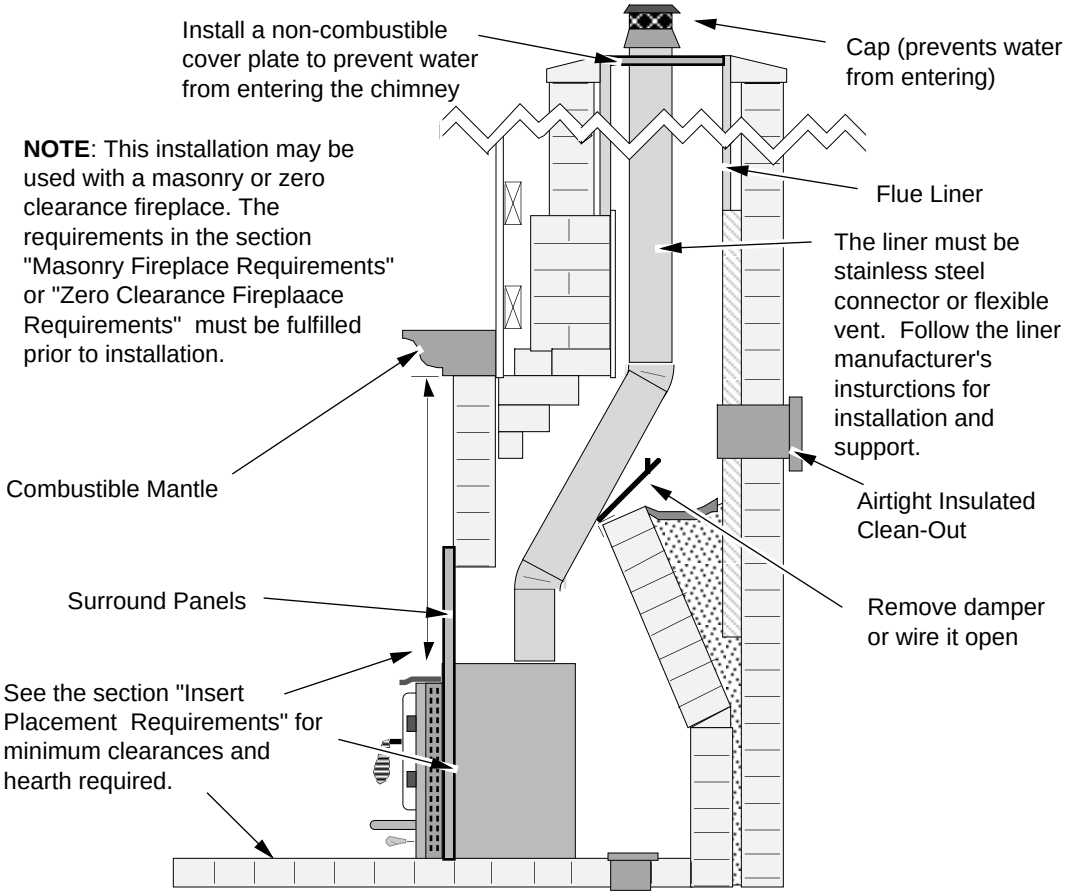
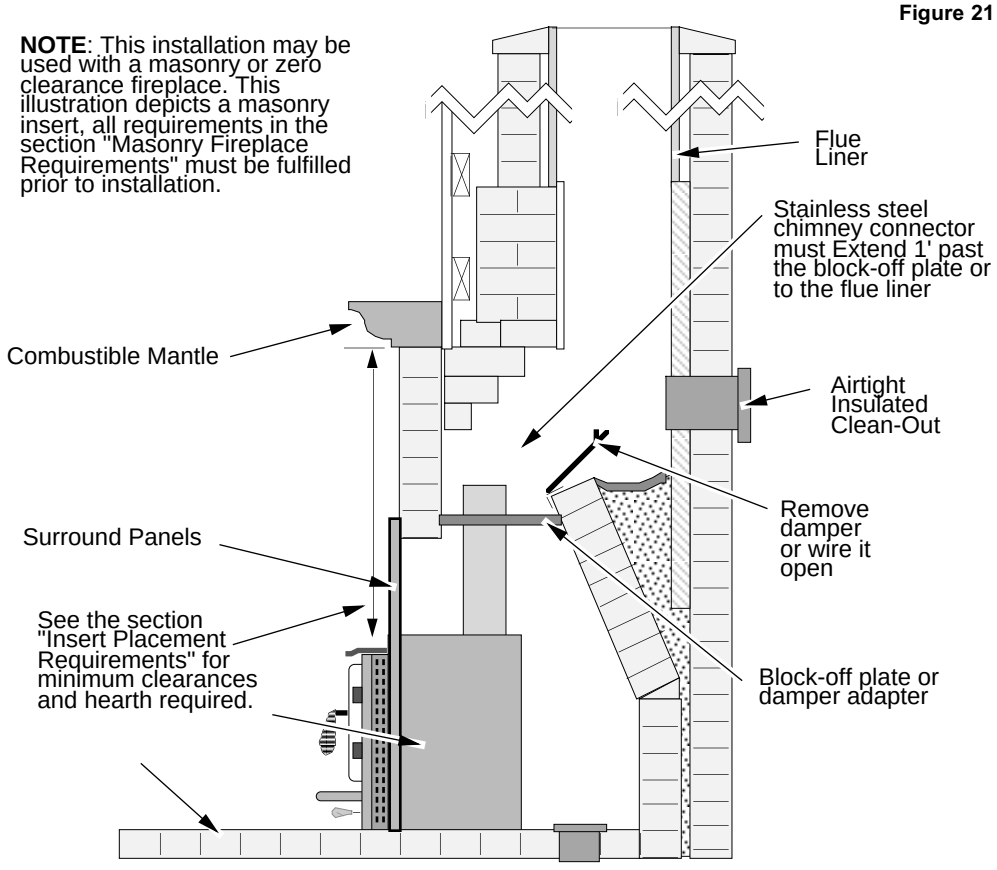

Install a non-combustible cover plate to prevent water from entering the chimney
Cap (prevents water from entering)
NOTE: This installation may be used with a masonry or zero clearance fireplace. The requirements in the section "Masonry Fireplace Requirements" or "Zero Clearance Fireplaace Requirements" must be fulfilled prior to installation.
Flue Liner
The liner must be stainless steel connector or flexible vent. Follow the liner manufacturer's insturctions for installation and support.
Combustible Mantle
Airtight Insulated Clean-Out
Surround Panels
Remove damper or wire it open
See the section "Insert Placement Requirements" for minimum clearances and hearth required.

Figure 21

Insert with Direct Connection (Masonry Fireplace)

NOTE:

Direct connections require installation of an airtight block-off plate or damper adapter (see "Block-off Plate Installation" on page 21).

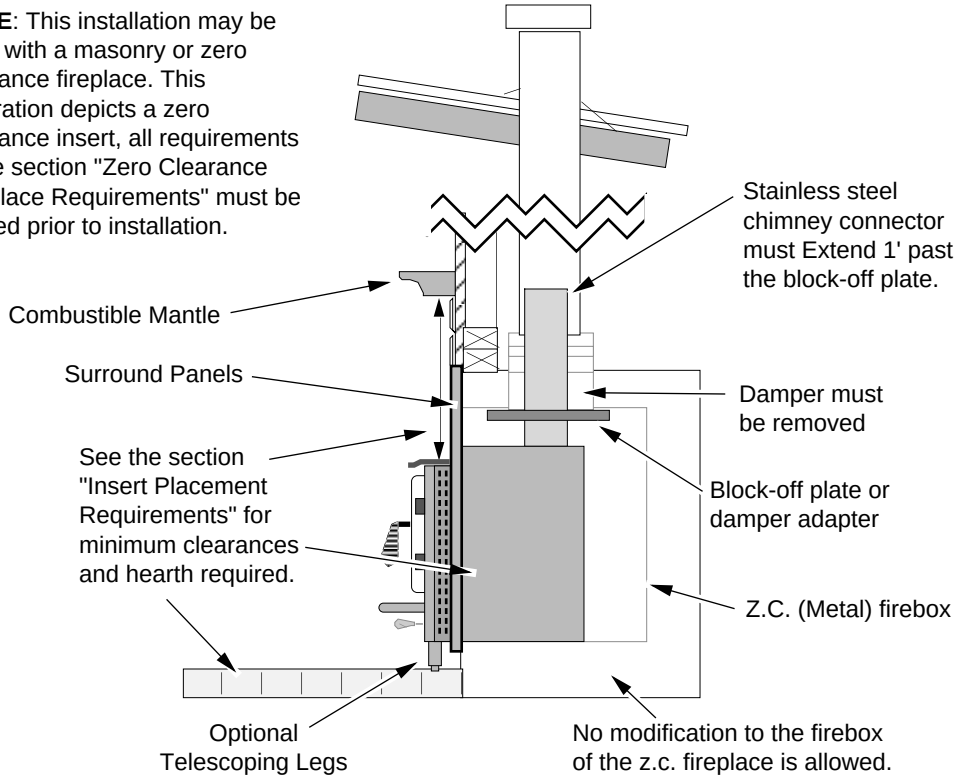

NOTE: This installation may be used with a masonry or zero clearance fireplace. This illustration depicts a masonry insert, all requirements in the section "Masonry Fireplace Requirements" must be fulfilled prior to installation.
Flue Liner
Stainless steel chimney connector must Extend 1' past the block-off plate or to the flue liner
Combustible Mantle
Airtight Insulated Clean-Out
Remove damper or wire it open
Surround Panels
See the section "Insert Placement Requirements" for minimum clearances and hearth required.
Block-off plate or damper adapter

Insert with Direct Connection (Z.C. Fireplace)

NOTE:

Direct connections require installation of an airtight block-off plate or damper adapter (see "Block-off Plate Installation" on page 21).

NOTE: This installation may be used with a masonry or zero clearance fireplace. This illustration depicts a zero clearance insert, all requirements in the section "Zero Clearance Fireplace Requirements" must be fulfilled prior to installation.

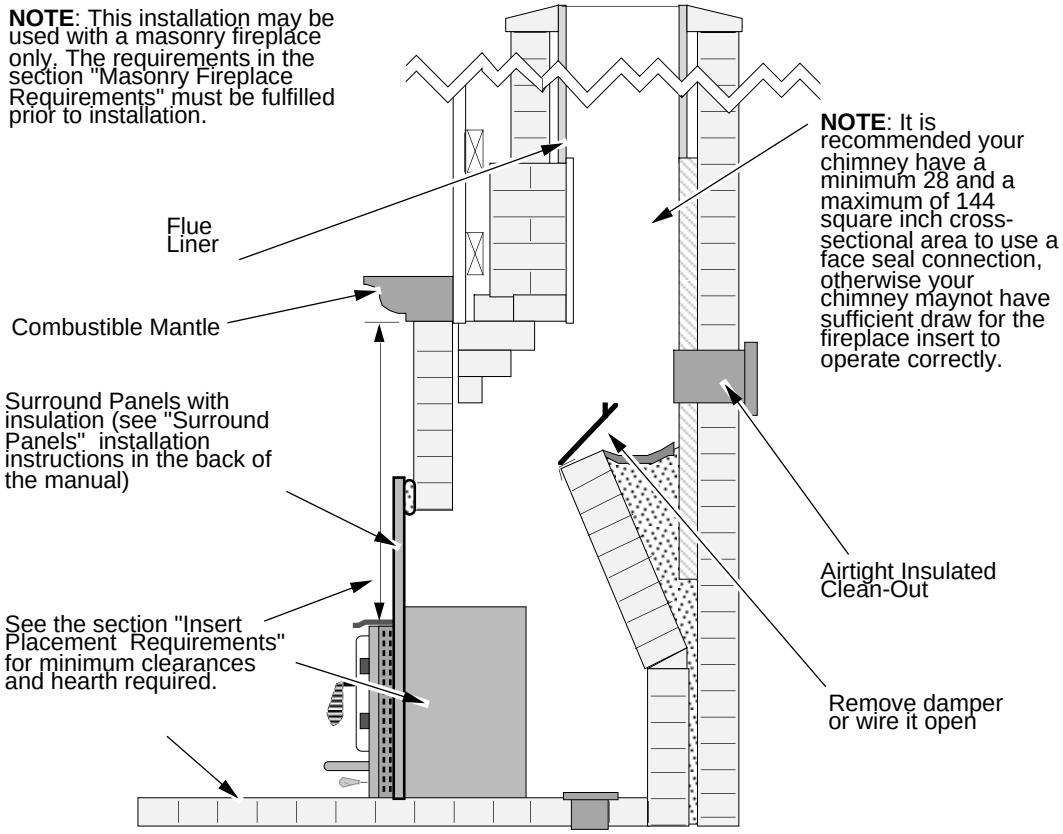

Stainless steel chimney connector must Extend 1' past the block-off plate.
Combustible Mantle
Surround Panels
Damper must be removed
See the section "Insert Placement Requirements" for minimum clearances and hearth required.
Block-off plate or damper adapter
Z.C. (Metal) firebox
Optional Telescoping Legs
No modification to the firebox of the z.c. fireplace is allowed.

Insert with Face Seal Connection

NOTE:

Face seal connections require installation of the surround panels and insulation (see the "Surround Panel Installation" on page 45).

NOTE: This installation may be used with a masonry fireplace only. The requirements in the section "Masonry Fireplace Requirements" must be fulfilled prior to installation.


Flue Liner
NOTE: It is recommended your chimney have a minimum 28 and a maximum of 144 square inch cross-sectional area to use a face seal connection, otherwise your chimney maynot have sufficient draw for the fireplace insert to operate correctly.
Combustible Mantle
Surround Panels with insulation (see "Surround Panels" installation instructions in the back of the manual)
Airtight Insulated Clean-Out
See the section "Insert Placement Requirements" for minimum clearances and hearth required.
Remove damper or wire it open

Safety Notice

If this appliance is not properly installed, a house fire may result. For your safety, follow the installation directions. Contact local building or fire officials about restrictions and installation inspection requirements in your area.

Read and follow all of the warnings on pages 4 and 5 of this manual.

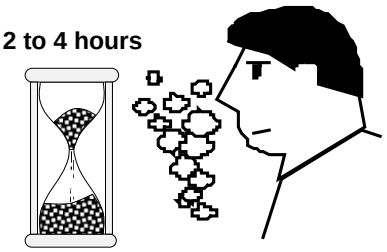
Before Your First Fire

Verify the Installation

Before starting the stove, verify that the stove is properly installed and all of the requirements in this manual have been followed.

Keep all flammable materials 36" away from the front of the stove (drapes, furniture, clothing, etc.).

Curing the Paint



This heater uses a heat-activated paint that will emit some fumes while starting the first fire. Open doors and windows to the room to vent these fumes. This typically lasts two to four hours. You may also notice oil burning off of the interior of the heater. This rust-stopping agent will soon dissipate.

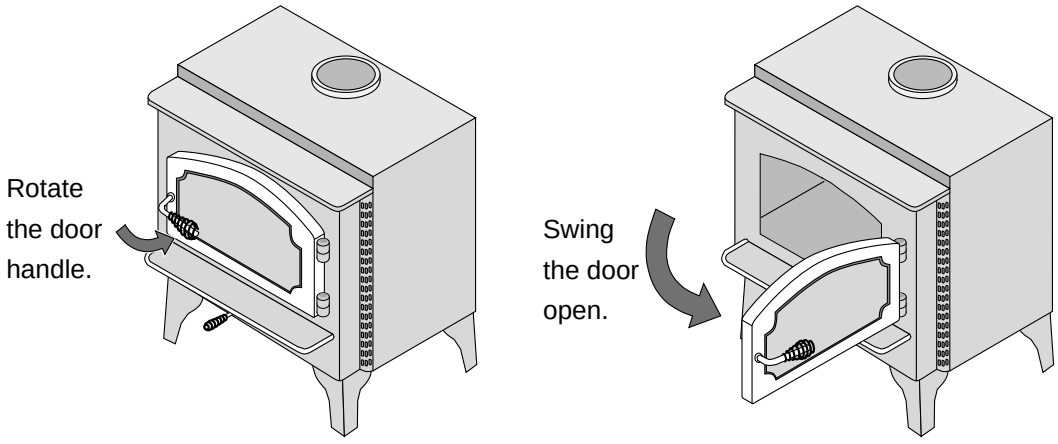
Door Gasket - The door gasket might adhere to the paint on the front of the heater. Leave the door slightly ajar for the first fire and be careful when opening the door after the first fire.

Over-Firing the Stove

This stove was designed to operate at a high temperature. But due to differences in vent configuration, fuel, and draft, this appliance can be operated at an excessive temperature. If the stove top or other area starts to glow red, you are over-firing the stove. Shut the air control down to low and allow the stove to cool before proceeding.

Over-firing may lead to damage of plated surfaces. If you are uncertain of over-firing conditions, we suggest placing a stove thermometer (e.g. Rutland® Model 710) directly over the door on the stove top - temperatures exceeding 800° are generally considered over-firing and will void the warranty.

Opening the Door



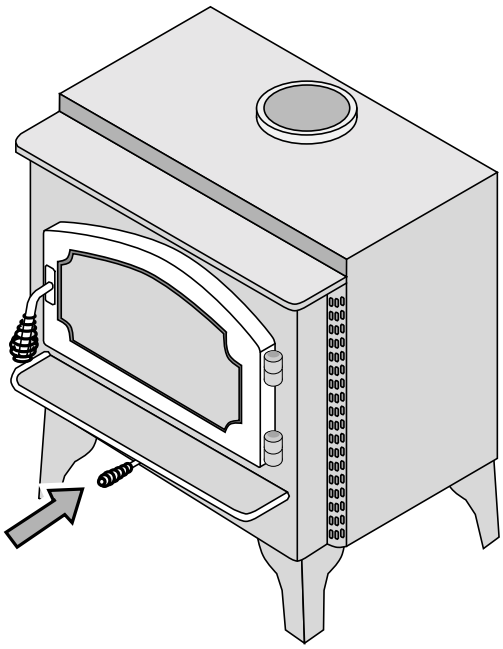
The door becomes hot during use. Use a glove to open the door if the handle is hot.

To prevent smoke from entering the room, open the air control before opening the door. You can also open the door a small amount and let air enter the firebox.

Starting a Fire

Since the dawn of time man has debated the best way to start a fire. Some use the boy-scout "tee-pee", some prefer the "tic-tac-toe" stack. Either way, review the hints and warnings below to ensure proper fire starting.

- Make sure the air control is pushed in. If additional air is needed, open the doors 1/4" during the first five minutes of start-up.

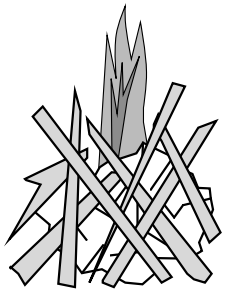


Never use gasoline, gasoline-type lantern fuel, kerosene, charcoal lighter fluid, or similar liquids to start or "freshen up" a fire in this stove. Keep all such liquids well away from the stove while it is in use.

If using a firestarter, use only products specifically designed for stoves - follow the manufacturer's instructions carefully.

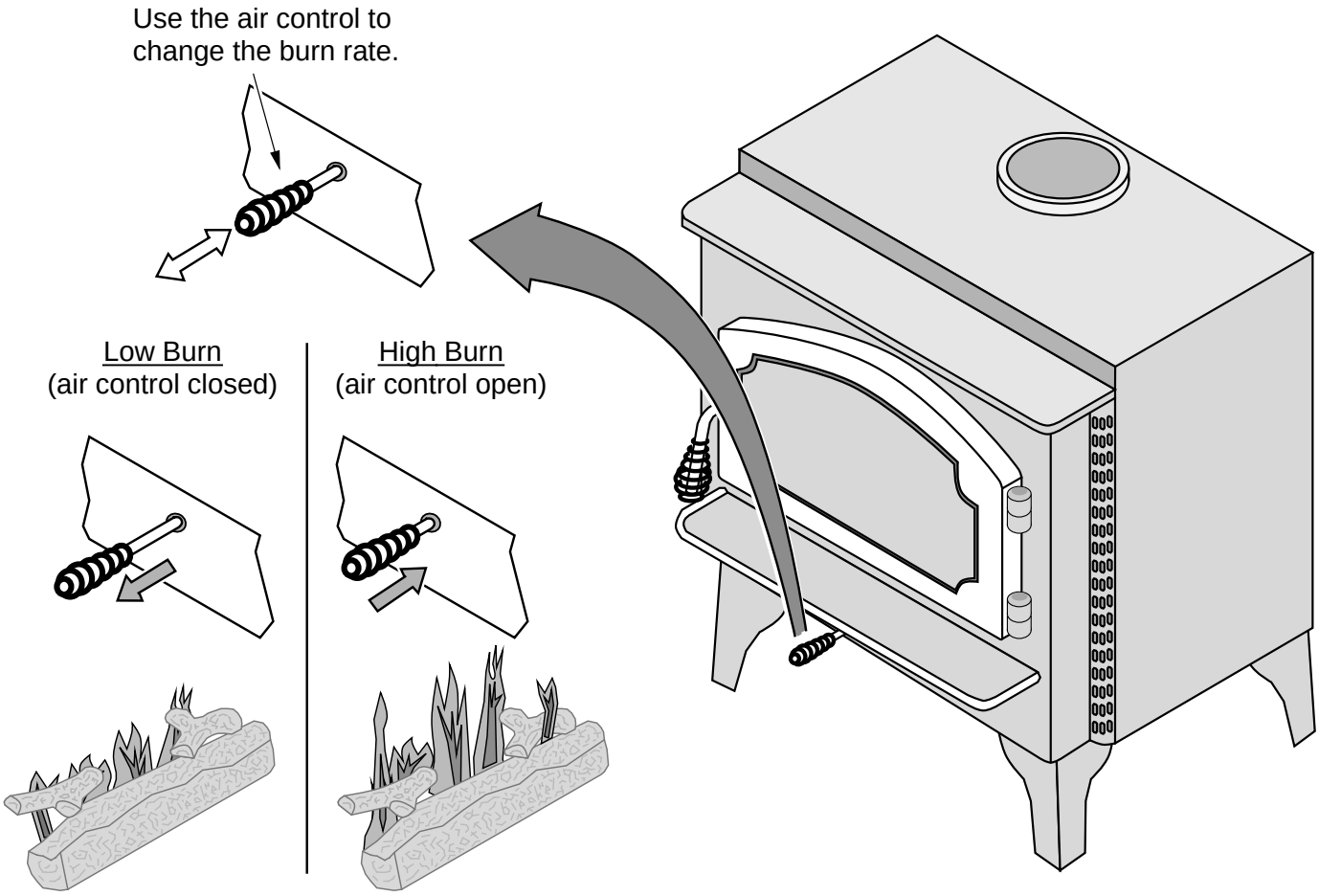
If the smoke does not pass up the chimney, ball up one sheet of newspaper, place it in the center of the firebox and light it. This should start the chimney drafting (this eliminates "cold air blockage").

Use plenty of kindling to ensure the stove reaches a proper temperature. Once the kindling is burning rapidly, place a few larger pieces of wood onto the fire.



Adjusting the Burn Rate

Use the air control slider to control the burn rate of the stove. See the illustration below for details.



Approximate Air Control Settings

Overnight Burn	Fully out to 9/32" open
Medium Burn	9/32" to 5/16" open
Medium High Burn	5/16" to 7/16" open
High Burn	7/16" open top pushed fully in

The air control becomes hot during operation - use gloves or a tool to prevent burns.

The air control may take several minutes to influence the burn rate. When making adjustments, you may wish to let the stove burn for 10 minutes to gauge performance.

Ash Removal

Ashes should be placed in a metal container with a tight fitting lid. The closed container of ashes should be placed on a noncombustible floor or on the ground, away from all combustible materials, pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have thoroughly cooled.

Optional Blower Operation

The blower will turn on once the stove is up to temperature. This is typically 15 to 30 minutes after starting the fire. Follow the directions below to alter the blower speed.

OFF

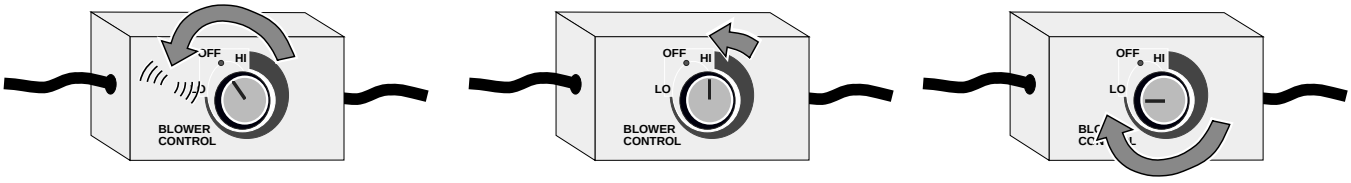
Turn the dial all the way counter-clockwise until it clicks off.

HIGH

The high position is all the way counter-clockwise, **without** clicking off.

LOW

Turn the dial all the way clockwise.



The blower may be used to affect heat output (i.e.: to reduce heat output, turn the blower down).

Route the power cord in a location where it will not come in contact with the appliance or become hot.

Re-Loading the Stove

Follow the directions below to minimize smoke spillage while re-loading the stove.

1 Open the air control all the way (push it in).

2 Open the door slightly. Let the airflow inside the firebox to stabilize before opening the doors fully.

3 Load wood onto the fire.

Overnight Burn

This stove is large enough to accommodate burn times up to eight hours. Follow the steps below to achieve an overnight burn.

1 Move the air control to high burn and let the stove become hot (burn for approximately 15 minutes).

2 Load as much wood as possible. Use large pieces if possible.

3 Let the stove burn on high for 15 minutes to keep the stove hot, then turn the air control to low.

4 In the morning the stove should still be hot, with embers in the coal bed. Stir the coals and load small pieces of wood to re-ignite the fire, if desired.

Differences if chimney height and draft may lower overall burn times.

Normal Operating Sounds

Creaks and Clicks:

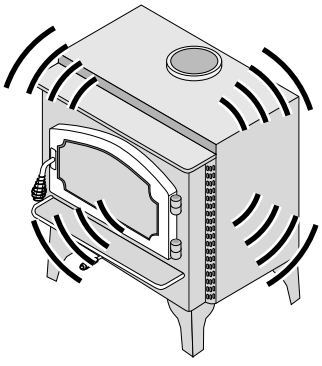
The 3/16" and 1/4" steel may creak or click when the stove heats up and cools down - this is normal.

Blower Sounds:

The blower will make a slight "humm" as it pushes air through the stove.

Hint:

Make sure the leveling bolts on legs are extended - preventing the hearth from amplifying any vibrations.

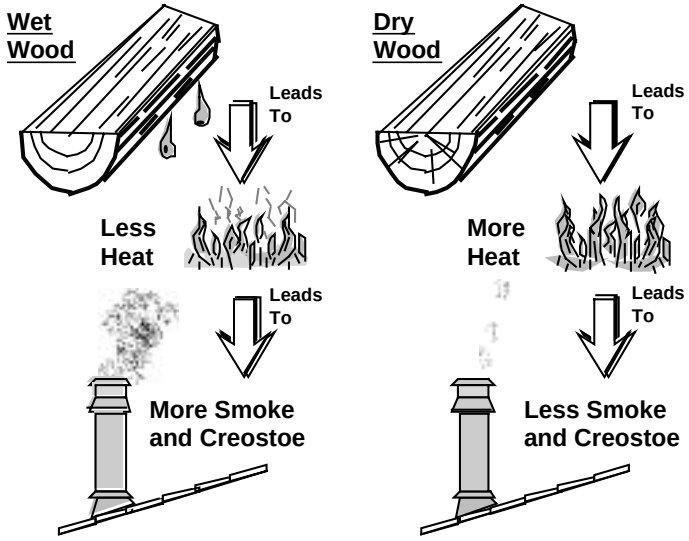


Hints for Burning

- Get the appliance hot before adjusting to low burn
- Use smaller pieces of wood during start-up and high burns to increase temperature
- Use larger pieces of wood for overnight or sustained burns
- Stack the wood tightly together to establish a longer burn
- Leave a bed of ashes (1/2" deep) to allow for longer burns
- Be considerate of neighbors & the environment: burn dry wood only
- Burn small, intense fires instead of large, slow burning fires when possible
- Learn your appliance's operating characteristics to obtain optimum performance

Selecting Wood

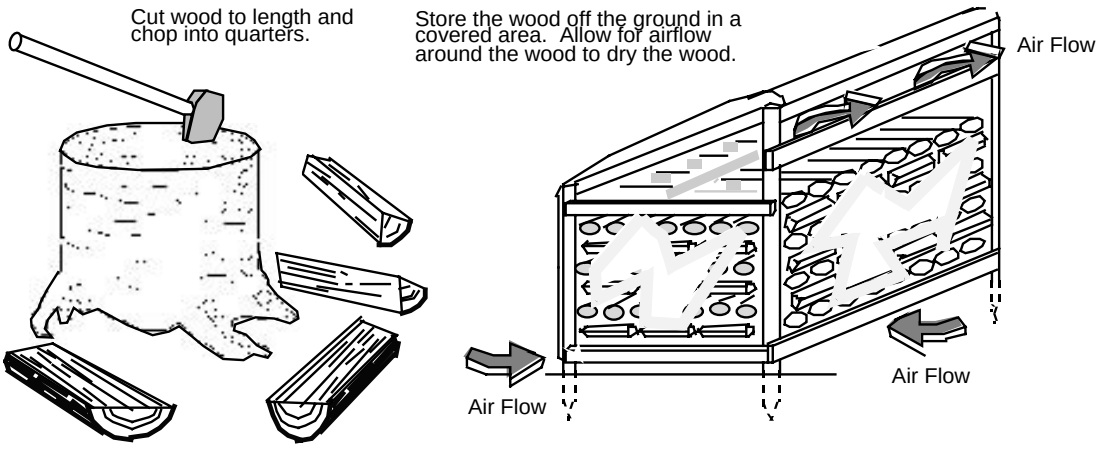
- Dry Wood is Key
- Dry wood burns hot, emits less smoke and creates less creosote.
- Testing Wood Moisture
- Split wood stored in a dry area will be fully dry within a year. This insures dry wood. If purchasing wood for immediate use, test the wood with a moisture meter. Some experienced wood burners can measure wood moisture by knocking pieces together and listening for a clear "knock" and not a "thud".



Why Dry Wood is Key

Wet wood, when burned, must release water stored within the wood. This cools the fire, creates creosote, and hampers a complete burn. Ask any experienced wood burner and he or she will agree: dry wood is crucial to good performance.

Wood Cutting and Storage


Cut wood to length and chop into quarters.
Store the wood off the ground in a covered area. Allow for airflow around the wood to dry the wood.
Air Flow
Air Flow
Air Flow

Troubleshooting

Problem	Possible Cause
Smoke Enters Room During Start-Up	• Open the air control (pg. 26). • Cold Air Blockage - burn a piece of newspaper to establish a draft. • If the flame is not getting enough air, a small crack in the door is all that is needed.
Kindling Does Not Start - Fire Smolders	• Open the air control (pg. 26). • Not enough starter paper - use additional newspaper if necessary. • If the flame is not getting enough air, a small crack in the door is all that is needed.
Smoke Enters Room While Re-Loading	• Open the air control before opening the door (pg. 26). • Let the air stabilize before fully opening the door. Then open the door approximately 1 inch. Let air go into the firebox for a few seconds. Once the smoke appears to be flowing up the chimney consistently, open the door. • Insufficient Draft - Chimney height and outside conditions can negatively affect draft. In these cases a small amount of smoke may enter the home. Adding more pipe or a draft-inducing cap may help.
Stove Does Not Burn Hot Enough	• Wood is Wet - see the section "Selecting Wood" on page 28 for details on wood. • Make sure the air control is all the way open. Slide the control back and forth to insure the control is not stuck. • Insufficient Draft - Chimney height and outside conditions can negatively affect draft. In these cases the fire may burn slowly. Adding more pipe or a draft-inducing cap may help.
Blower Does Not Run	• Stove is Not Up to Temperature - This is normal. The blower will come on when the stove is hot - usually 15 to 30 minutes. • Electricity is Cut to the Blower - Check the household breaker or fuse to make sure it is operable.
Stove Does Not Burn Long Enough	• Depending upon wood, draft, and other factors, the burn time may be shorter then stated. Make sure the doors are sealing and not allowing air into the firebox - See the section "Door and Glass Inspection" on page 31 for details. • Check the ash bed for coals. Often, coals are still glowing under a slight bed of flyash. By raking these into a pile you can re-start your stove quickly.

Failure to properly maintain and inspect your appliance may reduce the performance and life of the appliance, void your warranty, and create a fire hazard.

Daily Maintenance (while stove is in use)

Remove Ash (if necessary)

- Ash removal is **not** required once it builds up. 1/2" to 1" of ash may be desirable because it slows the burn rate. Generally, remove ash once it has built up over 1". Follow the directions below to remove ash.

1 Let the stove cool completely (at least two hours after the last coal has extinguished).

2 Place a cloth or cardboard protector over the hearth to catch ash and protect against scratching.

3 Open the doors and scoop the ash into a metal container with a tight fitting lid. The closed container of ashes should be placed on a noncombustible floor or on the ground, away from all combustible materials, pending final disposal.

Improperly disposed ashes lead to fires. Hot ashes placed in cardboard boxes, dumped in back yards, or stored in garages, are recipes for disaster.

Wood-burning stoves are inherently dirty. During cleaning have a vacuum ready to catch spilled ash (make sure ash is entirely extinguished).

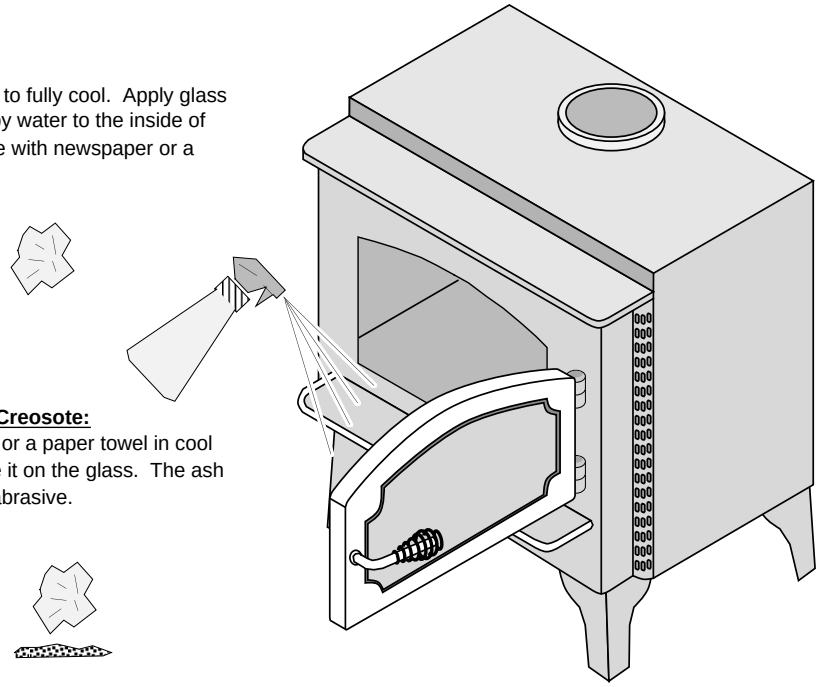
There are vacuum cleaners specifically made to remove ash (even if the ash is warm). Contact your dealer for details.

Clean the Glass (if necessary)

This appliance has an airwash to keep the glass clean. However, burning un-seasoned wood or burning on lower burn rates leads to dirtier glass (especially on the sides). Clean the glass by following the directions below.

Allow the stove to fully cool. Apply glass cleaner or soapy water to the inside of the glass. Wipe with newspaper or a paper towel.

For Stubborn Creosote:
Dip newspaper or a paper towel in cool ashes and wipe it on the glass. The ash acts as a light abrasive.



The glass will develop a very slight haze over time. This is normal and will not affect viewing of the fire.

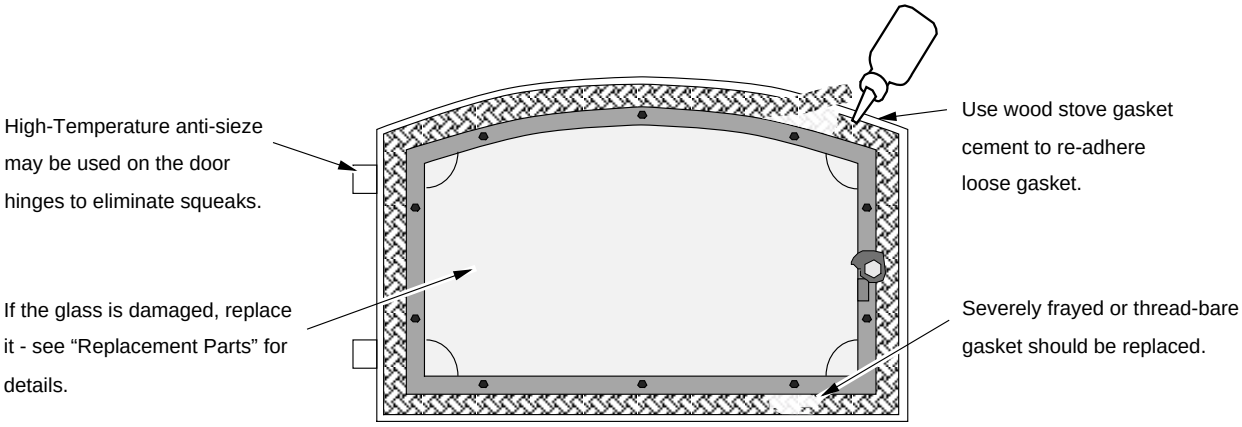
Monthly Maintenance (while appliance is in use)

Make sure the appliance has fully cooled prior to conducting service.

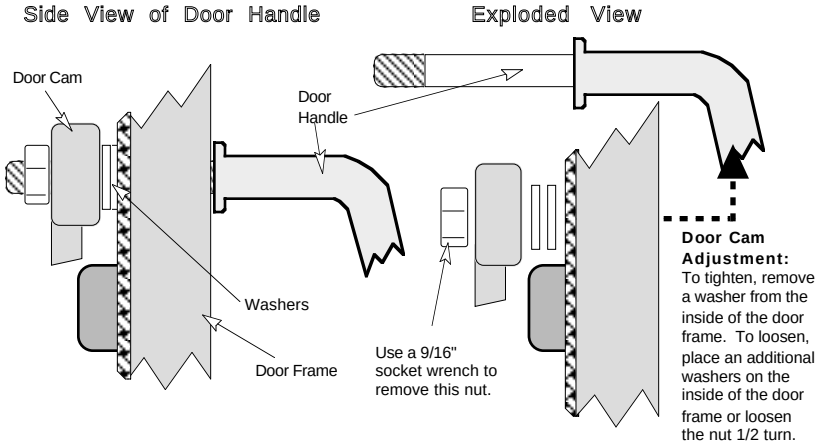
Door and Glass Inspection

The door must form an air-tight seal to the firebox for the stove to work correctly. Inspect the door gasket to make sure it forms an air-tight seal to the firebox.

The door can be lifted off the hinges if extensive repairs are conducted.


High-Temperature anti-sieze may be used on the door hinges to eliminate squeaks.
If the glass is damaged, replace it - see “Replacement Parts” for details.
Use wood stove gasket cement to re-adhere loose gasket.
Severely frayed or thread-bare gasket should be replaced.

The door latch should pull the door against the face of the stove (but not so tight as to not allow full handle rotation). If the latch requires adjustment, follow the directions below.


Side View of Door Handle
Exploded View
Door Cam
Door Handle
Washers
Door Frame
Use a 9/16" socket wrench to remove this nut.
Door Cam Adjustment: To tighten, remove a washer from the inside of the door frame. To loosen, place an additional washers on the inside of the door frame or loosen the nut 1/2 turn.

Creosote - Formation and Need for Removal

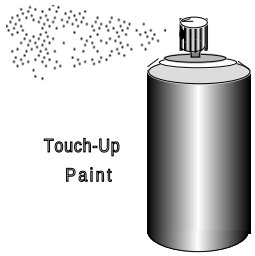
When wood is burned slowly, it produces tar and other organic vapors, which combine with expelled moisture to form creosote. The creosote vapors condense in the relatively cool chimney flue of a slow-burning fire. As a result, creosote residue accumulates on the flue lining. When ignited, this creosote makes an extremely hot fire. The chimney and chimney connector should be inspected at least once every two months during the heating season to determine if a creosote buildup has occurred. If creosote has accumulated, it should be removed to reduce the risk of a chimney fire.

If you are not certain of creosote inspection, contact your dealer or local chimney sweep for a full inspection. Excess creosote buildup may cause a chimney fire, that may result in property damage, injury, or death.

Yearly Maintenance

Make sure the appliance has fully cooled prior to conducting service.

Touch Up Paint

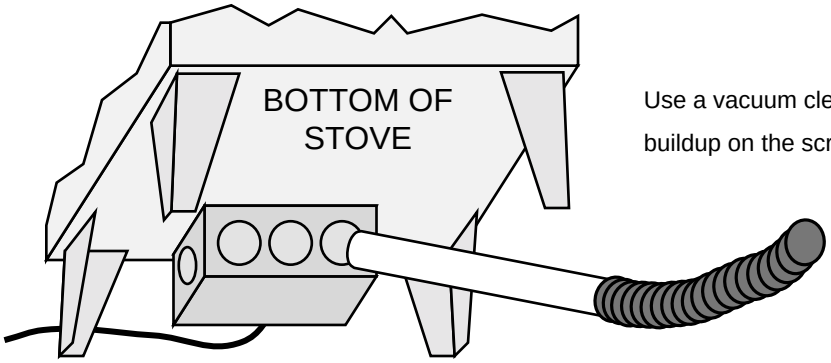


Included with the owner's pack of this appliance is a can of Stove-Brite® paint. To touch up nicks or dulled paint, apply the paint while the appliance is cool. Sand rusted or damaged areas before preparation (use 120 grit sandpaper). Clean and dry the area to prepare the surface. Wait at least one hour before starting the appliance. The touched up area will appear darker than the surrounding paint until it cures from heat. Curing will give off some fumes while curing – open windows to ventilate.

Cleaning the Air Duct and Blower (if applicable)

Use a vacuum to clean the air ducts (channels). This prevents dust from burning and creating odors.

The optional blower should be vacuumed every year to remove any buildup of dust, lint, etc.



Use a vacuum cleaner to remove any buildup on the screens of the blower.

Firebrick and Baffle Inspection

Use the illustration on page 34 as a reference for checking the following items. Make sure the appliance is cool before proceeding.

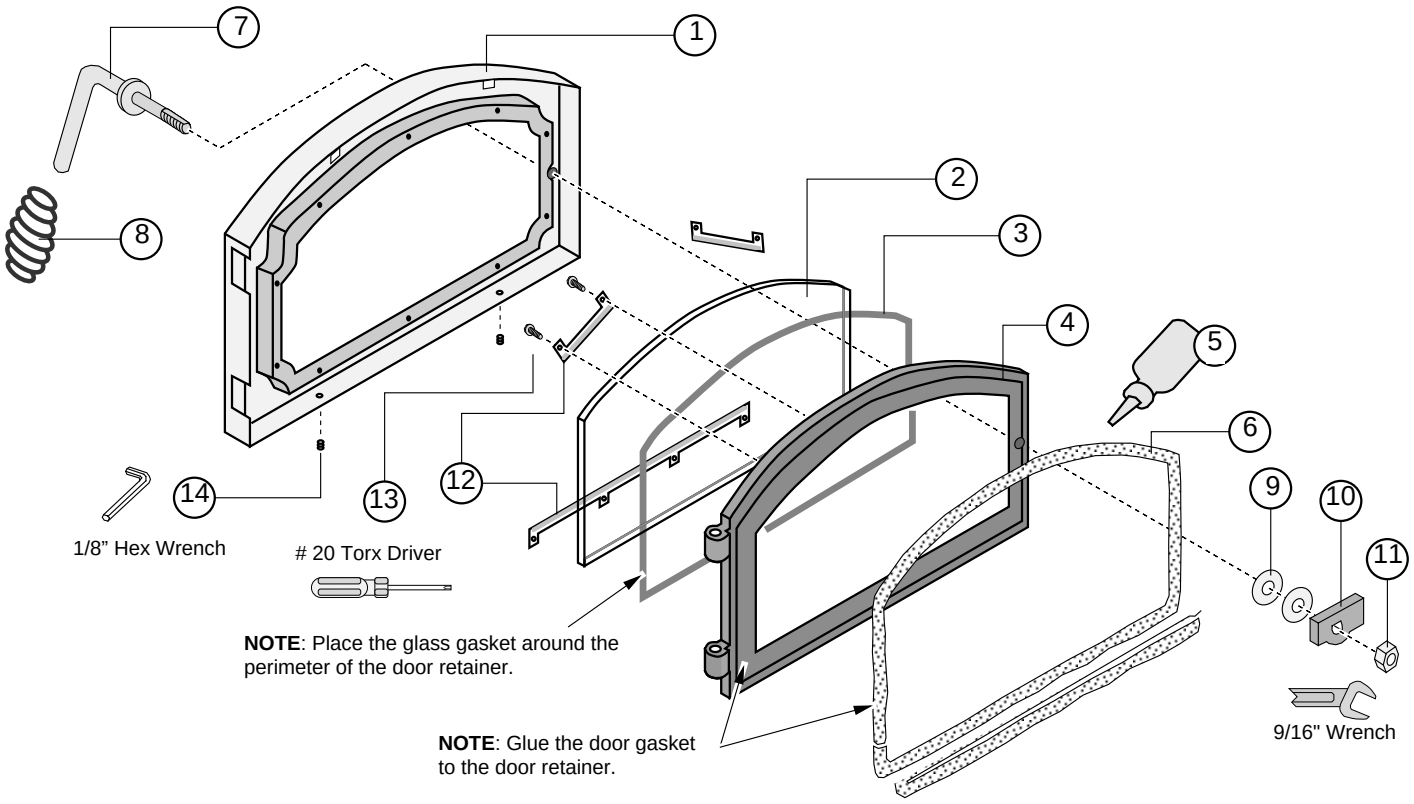
Baffle Firebricks - check the bricks along the ceiling of the firebox to make sure they are intact and have no gaps between them. Slide the bricks to eliminate any gaps.

Baffle Supports - make sure the front and back baffle supports in are place and not degraded. Slight scaling or rusting of the metal is normal.

Secondary Air Tubes - Check the two air tubes and collars to make sure they are intact and not severely deteriorated. Slight scaling or rusting of the metal is normal. Make sure the push pins hold the air tubes in place.

Floor and Wall Firebricks - replace any severely damaged firebrick along the side or floor of the firebox.

Door Parts


1/8" Hex Wrench
20 Torx Driver
NOTE: Place the glass gasket around the perimeter of the door retainer.
NOTE: Glue the door gasket to the door retainer.
9/16" Wrench

ID #	Description	Qty	Part #		ID #	Description	Qty	Part #
1	**Door Shell - Black** Door Shell - Brass Door Shell - Pewter	1	230-00570 230-00572 230-00568		2	**Glass (15-3/8" x 8-7/8")**	1	**173-01002**
3	**Glass Gasket**	1	**224-11086**		4	**Door Retainer (w gasket)**	1	**224-23020**
5	**Gasket Cement**	1	**99900409**		6	**Door Gasket**	1	**99900407**
7	**Door Handle Asbly - Black** Door Handle Asbly - Brass Door Handle Asbly - Pewter	1	**224-14042** 99900410 224-14052		8	**Spring - Black** Spring - Brass Spring - Pewter	1	**100-14122** 99300100 100-04103
9	**Washers**	2	**100-03501**		10	**Cam**	1	**99900417**
11	**Nut, Brass**	1	**101-00007**		12	**Glass Clips - Top** Glass Clip - Bottom	2 1	**224-230022** 224-230021
13	**#8-32 3/8" Type F Screw**	8	**225-20039**		14	**Set Screw**	2	**225-20038**

Replacing the Glass

The glass must not contact the door retainer or glass clips directly. The glass gasket and glass clip gaskets insulate the glass to prevent cracking. Do not over-tighten the glass clips.

See "Door Shell Installation" (pg. 38) for details on removing the door handle and shell. NOTE: The glass gasket is placed in the grove along the inside perimeter of the door retainer. Make sure the glass clip screws are all fully tightened - they must be flush with the door retainer for the door shell to install.

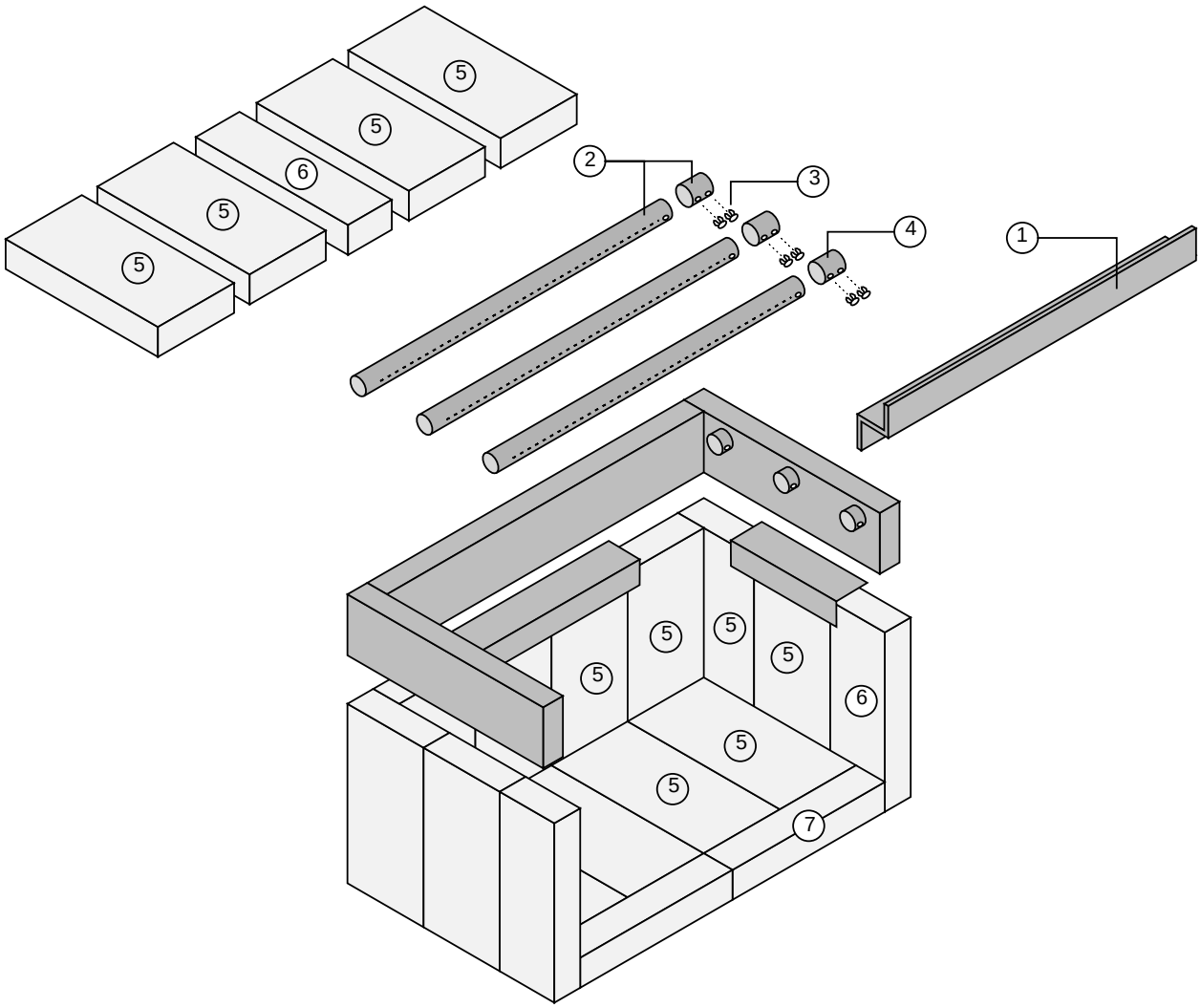
Replacing the Door Gasket

The door gasket inserts into the outer groove of the door retainer. Stove gasket cement holds it in place. Before installing, remove any residual cement. Lay the gasket in place (start at the lower left corner) and cut off any excess gasket (do not stretch the gasket. The cement fully cures with heat from the stove. You may need to open and close the door repeatedly to get the gasket to seat fully.

Replacing the Door Handle

See the illustration above for a component list (see pg. 31 for details on adjusting the door).

Firebox Parts



ID #	Description	Qty	Part #		ID #	Description	Qty	Part #
1	Baffle Support "S" Bar	1	99900294		2	Air Tube with Sleeve	3	98900232
3	Air Tube Push Pins	6	98900353		4	Air Tube Retainer Sleeve	3	98900356
5	Brick - 9" x 4.5" un-cut	16	98900102 (qty of 9)		6	Brick, Cut - 9" x 2.5"	3	251-00019
7	Brick, Cut - 9" x 1.375"	2	251-00018					

Floor and Side Firebrick Removal & Replacement

Do not pry firebrick - they chip and crack easily. Remove the floor firebricks first. The side firebrick are removed later because they are pinned in place by the floor firebrick. Clean the firebox prior to replacing the firebrick.

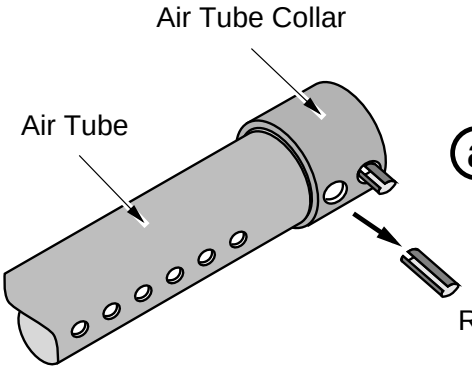
Baffle Removal & Replacement

The baffle is held up by the front air tube. Make sure to support the baffle after removing the air tubes.

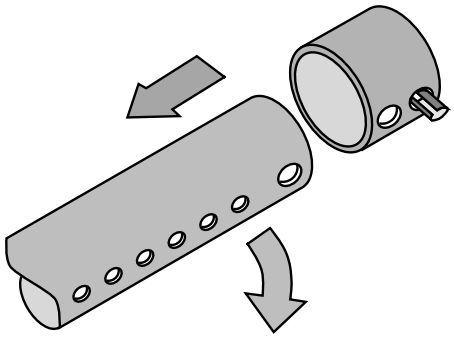
- Lift the four baffle firebricks then lift the baffle deflector up and over its resting postion.
- Slide the bricks forward and tilt them downwards to remove.

Air Tube Removal & Replacement

All three air tubes are identical.



(a) Remove the left pin on the air tube collar



(b) Slide the air tube to the left, swing it down and remove from the firebox.

36 Limited 7 Year Warranty

To register your TRAVIS INDUSTRIES, INC. 7 Year Warranty, complete the enclosed warranty card and mail it within **ten (10)** days of the appliance purchase date to: TRAVIS INDUSTRIES, INC., 4800 Harbour Pointe Blvd. SW, Mukilteo, WA 98275. TRAVIS INDUSTRIES, INC. warrants this gas appliance (appliance is defined as the equipment manufactured by Travis Industries, Inc.) to be defect-free in material and workmanship to the original purchaser from the date of purchase as follows:

Check with your dealer in advance for any costs to you when arranging a warranty call.
Mileage or service charges are not covered by this warranty. This charge can vary from store to store.

Years 1 & 2 - COVERAGE: PARTS & LABOR

Firebox Assembly:
Firebox, Baffle Supports, Air Tubes, Air Channels, Convection Chamber

Door Assembly:
Solid Brass or Cast Door, Latch Assembly, Glass Retainers

Plated Finish
Plated Door, Legs, etc… See "Conditions & Exclusions" # 9 below.

Air Control Assembly
Slider Plate, Pressure Plate

Ceramic Glass
Glass (breakage from thermal shock)

Firebrick
Breakage from thermal shock

Accessories
Legs, Pedestal, Panels, Blower

Re-Installation Allowance
In cases where heater must be removed from home for repairs, a partial cost of re-installation is covered (pre-authorization required)

One-Way Freight Allowance
One-way freight allowance on pre-authorized repair done at factory is covered.

Exclusions: Paint, Gasketing

Years 3 Through 5 - COVERAGE: PARTS & LABOR

Firebox Assembly:
Firebox, Baffle Supports, Air Tubes, Air Channels, Convection Chamber

Air Control Assembly
Slider Plate, Pressure Plate

Door Assembly:
Solid Brass or Cast Door, Latch Assembly, Glass Retainers

One-Way Freight Allowance
One-way freight allowance on pre-authorized repair done at factory is covered.

Exclusions: Paint, Gasketing, Plated Finish, Accessories (Legs, Pedestal, Panels, Blower), Glass, Firebrick, Re-Installation Allowance

Years 6 & 7 - COVERAGE: PARTS ONLY

Firebox Assembly:
Firebox, Baffle Supports, Air Tubes, Air Channels, Convection Chamber

Door Assembly:
Solid Brass or Cast Door, Latch Assembly, Glass Retainers

Air Control Assembly
Slider Plate, Pressure Plate

Exclusions: Paint, Gasketing, Plated Finish, Accessories (Legs, Pedestal, Panels, Blower), Glass, Firebrick, Re-Installation Allowance, One-Way Freight Allowance, Labor

CONDITIONS & EXCLUSIONS

1. This new appliance must be installed by a qualified installer. It must be installed, operated, and maintained at all times in accordance with the instructions in the Owner's Manual. Any alteration, willful abuse, accident, neglect, or misuse of the product shall nullify this warranty.
2. This warranty is nontransferable, and is made to the ORIGINAL purchaser, provided that the purchase was made through an authorized Travis dealer.
3. Discoloration and some minor expansion, contraction, or movement of certain parts and resulting noise, is normal and not a defect and, therefore, not covered under warranty. Over-firing (operation where the steel may glow red) of this appliance can cause serious damage and will nullify this warranty.
4. The warranty, as outlined within this document, does not apply to the chimney components or other Non-Travis accessories used in conjunction with the installation of this product. If in doubt as to the extent of this warranty, contact your authorized Travis retailer before installation.
5. Travis Industries will not be responsible for inadequate performance caused by environmental conditions such as nearby trees, buildings, roof tops, wind, hills or mountains or negative pressure or other influences from mechanical systems such as furnaces, fans, clothes dryers, etc.
6. This Warranty is void if:
   a. The unit has been operated in atmospheres contaminated by chlorine, fluorine or other damaging chemicals.
   b. The unit is subject to submersion in water or prolonged periods of dampness or condensation.
   c. Any damage to the unit, combustion chamber, heat exchanger or other components due to water, or weather damage which is the result of, but not limited to, improper chimney/venting installation.
7. Exclusions to this 7 Year Warranty include: injury, loss of use, damage, failure to function due to accident, negligence, misuse, improper installation, alteration or adjustment of the manufacturer's settings of components, lack of proper and regular maintenance, damage incurred while the appliance is in transit, alteration, or act of God.
8. This 7 Year warranty excludes damage caused by normal wear and tear, such as paint discoloration or chipping, worn or torn gasketing, chipped or cracked firebrick, etc. Also excluded is damage to the unit caused by abuse, improper installation, modification of the unit, or the use of fuel other than that for which the unit is configured (use cord wood only).
9. Damage to brass or plated surfaces caused by fingerprints, scratches, melted items, or other external sources left on the surfaces from the use of abrasive cleaners is not covered in this warranty. Damage to the surfaces from over-firing (operation where the steel may glow red) is not covered in this warranty.
10. TRAVIS INDUSTRIES, INC. is free of liability for any damages caused by the appliance, as well as inconvenience expenses and materials. Incidental or consequential damages are not covered by this warranty. In some states, the exclusion of incidental or consequential damage may not apply.
11. This warranty does not cover any loss or damage incurred by the use or removal of any component or apparatus to or from the Travis appliance without the express written permission of TRAVIS INDUSTRIES, INC. and bearing a TRAVIS INDUSTRIES, INC. label of approval.
12. Any statement or representation of Travis products and their performance contained in Travis advertising, packaging literature, or printed material is not part of this 7 year warranty.
13. This warranty is automatically voided if the appliance's serial number has been removed or altered in any way. If the appliance is used for commercial purposes, it is excluded from this warranty.
14. No dealer, distributor, or similar person has the authority to represent or warrant Travis products beyond the terms contained within this warranty. TRAVIS INDUSTRIES, INC. assumes no liability for such warranties or representations.
15. Travis Industries will not cover the cost of the removal or re-installation of hearths, facing, mantels, venting or other components.
16. If for any reason any section of this warranty is declared invalid, the balance of the warranty remains in effect and all other clauses shall remain in effect.
17. This 7 year warranty is the only warranty supplied by Travis Industries, Inc., the manufacturer of the appliance. All other warranties, whether express or implied, are hereby expressly disclaimed and purchaser's recourse is expressly limited to the warranties set forth herein.

IF WARRANTY SERVICE IS NEEDED:

1. If you discover a problem that you believe is covered by this warranty, you MUST REPORT it to your Travis dealer WITHIN 30 DAYS, giving them proof of purchase, the purchase date, and the model name and serial number.
2. Travis Industries has the option of either repairing or replacing the defective component.
3. If your dealer is unable to repair your appliance's defect, he may process a warranty claim through TRAVIS INDUSTRIES, INC., including the name of the dealership where you purchased the appliance, a copy of your receipt showing the date of the appliance's purchase, and the serial number on your appliance. At that time, you may be asked to ship your appliance, freight charges prepaid, to TRAVIS INDUSTRIES, INC. TRAVIS INDUSTRIES, INC., at its option, will repair or replace, free of charge, your appliance if it is found to be defective in material or workmanship within the time frame stated within this 7 year warranty. TRAVIS INDUSTRIES, INC. will return your appliance, freight charges (years 1 to 5) prepaid by TRAVIS INDUSTRIES, INC., to your regional distributor, or dealership.
4. Check with your dealer in advance for any costs to you when arranging a warranty call. Mileage or service charges are not covered by this warranty. This charge can vary from store to store.

Listing Label

Listed By O-T-L Beaverton Oregon USA
OMNI-Test Laboratories, Inc.
REPORT #028-S-47-4

DO NOT REMOVE THIS LABEL
CONTACT LOCAL BUILDING OR FIRE OFFICIALS ABOUT INSTALLATION AND RESTRICTIONS IN YOUR AREA.
ROOM HEATER SOLID FUEL TYPE APPLIANCE ALSO FOR USE IN MOBILE HOMES
SUITABLE FOR USE IN FACTORY-BUILT (Z.C.) FIREPLACES AND MASONRY FIREPLACES.

LOPI ENERGY SYSTEMS

MODEL:
ANSWER (ANSWER-NT)

TESTED TO UL 1482 AND APPLICABLE SECTIONS OF UL 127, 737 AND 907.
FOR USE WITH SOLID WOOD FUEL ONLY

SERIAL NUMBER [redacted]

PREVENT HOUSE FIRES - Install and use only in accordance with the manufacturer's installation and operating instructions. Contact your local building or fire officials about restrictions and installation inspection in your area. Refer to local building codes and manufacturer's instructions for precautions required for passing a chimney through a combustible wall or ceiling. Do not run a chimney connector through a combustible wall or ceiling. Do not connect this unit to a chimney flue serving another appliance. Clearances may be reduced by methods specified in NFPA 211, listed wall shields, pipe shields, or other means approved by local building or fire officials. Inspect and clean chimney frequently, under certain conditions of use creosote build up may occur rapidly. Do not overfire. If heater glows, you are overfiring. Maintain 36" front clearances to all furnishings and other combustible materials. Do not use grate or elevate fire, build wood fire directly on hearth. Operate only with door closed.

OPTIONAL EQUIPMENT: Front or rear blower (electrical rating: 115V, 60 Hz., 1.8 Amps)
Replace glass only with LOPI supplied NEOCERAM ceramic glass (5mm).
Do not route power cord under or in front of appliance.

FREESTANDING INSTALLATION

STANDARD RESIDENTIAL FREESTANDING INSTALLATIONS REQUIRE: 6" diameter, minimum 24 MSG black or 25 MSG blued steel connector, with listed UL-103 HT factory-built chimney, suitable for use with solid fuels or masonry chimney. Pedestal or legs are required.

ALCOVE INSTALLATIONS REQUIRE: One of the Listed doublewall connectors listed below. Pedestal or legs are required. Maximum alcove depth 48", minimum alcove height 84".

MOBILE HOME AND REDUCED CLEARANCE INSTALLATIONS REQUIRE: One of the Listed doublewall connectors listed below. In addition, mobile home installations require outside air - use the Lopi Answer optional pedestal or outside air boot. Pedestal or legs are required.

- DURAVENT model DVL with DURA-PLUS chimney
- AMERI-TEC model DCC with model HS chimney
- SECURITY model DP with SECURITY model ASHT or S2100 chimney
- GSW model Super Chimney Twenty-One connected directly to appliance
- SELKIRK METALBESTOS model DS connector with model SSII chimney
- DURAVENT Model DVL with DURA-TECH chimney

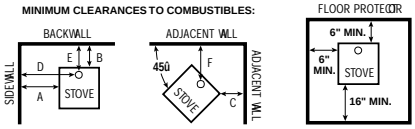
CLEARANCES AND FLOOR PROTECTION REQUIREMENTS:	STANDARD RESIDENTIAL INSTALLATION (SINGLEWALL CONNECTOR)	MOBILE HOME, ALCOVE AND REDUCED CLEARANCE INSTALLATIONS (REQUIRES DOUBLE WALL CONNECTOR)
A. SIDEWALL TO UNIT	18"	13"
B. BACKWALL TO UNIT	16.5"	9"
C. CORNERWALL TO UNIT	10"	7.5"
D. SIDEWALL TO CONNECTOR	27"	21.5"
E. BACKWALL TO CONNECTOR	19.5"	11.5"
F. CORNERWALL TO CONNECTOR	19.5"	16.5"

U.S. ENVIRONMENTAL PROTECTION AGENCY
Certified to comply with July 1990 particulate emission standards.

DATE OF MANUFACTURE

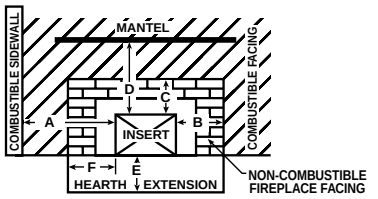
	2004	2005	2006
Jan.	Feb.	Mar.	Apr.	May	June
July	Aug.	Sep.	Oct.	Nov	Dec.

MINIMUM CLEARANCES TO COMBUSTIBLES:



Manufactured By Travis Industries, Inc.
4800 Harbour Pointe Blvd. SW Mukilteo,

LISTED FIREPLACE INSERT FOR INSTALLATION INTO A FACTORY-BUILT (Z.C.) FIREPLACE OR MASONRY FIREPLACE



Minimum Clearance to Combustibles and Hearth Requirements	Masonry Fireplace Installations	Factory-Built (Z.C.) Fireplace Installations
A.	13"	30"
B.	9.5"	12"
C.	12"	12"
With Shield	N/A	N/A
D.	15.5"	24"
With Shield	N/A	N/A
Hearth Extension Front	16"	16"
Hearth Extension to Sides	8"	8"

Masonry fireplace installation requirements, install with facing shroud plates, do not remove firebrick or mortar from masonry fireplace, install with or without a direct flue connection.

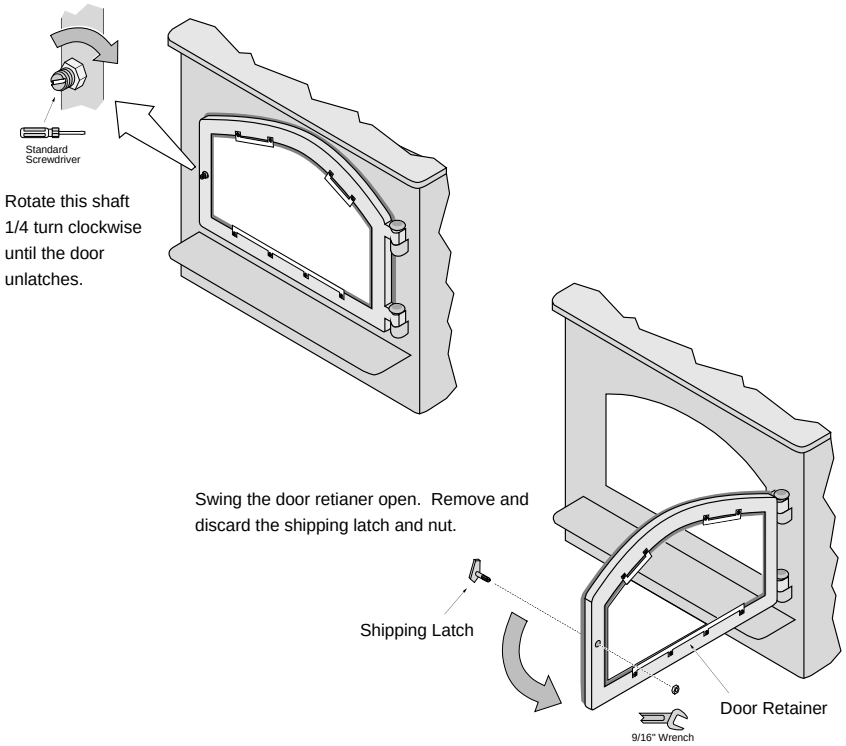
Factory-Built (Z.C.) Fireplace installations require a minimum 24" starter section directly connected to the fireplace chimney or a full re-line. Factory-Built (Z.C.) Fireplace chimney must have a minimum cross-sectional area of 28.85". The Factory-Built (Z.C.) Fireplace damper and control must be removed, or secured in the open position. For minimum Factory-Built (Z.C.) Fireplace firebox size, see manufacturer's installation instructions. Factory-Built (Z.C.) Fireplace floor protection must be 3/8" minimum non-combustible material or equivalent, extending 16" in front of insert and 8" to both sides. A metal deflector plate must be installed if the flue collar is not completely behind the lintel plate of the Factory-Built (Z.C.) Fireplace openings.

0240 (IGN)

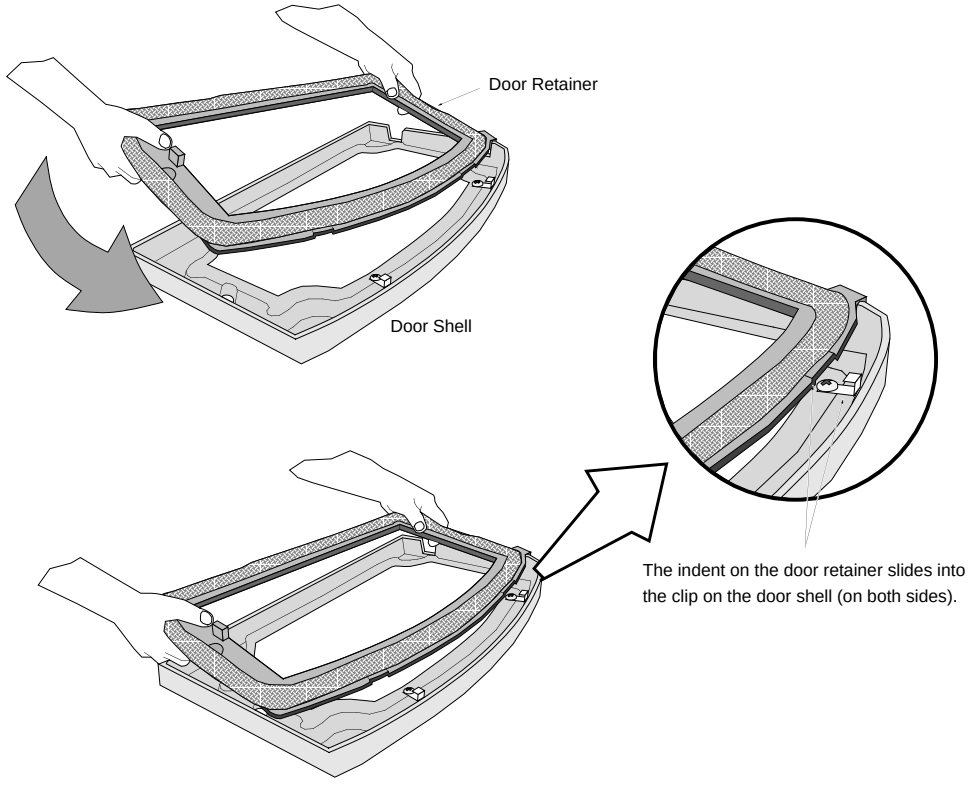
Door Shell Installation

Part Numbers: Black # 99300195, Brass # 9930096, Pewter # 99300197

1 Remove the door retainer shipping latch following the directions below.

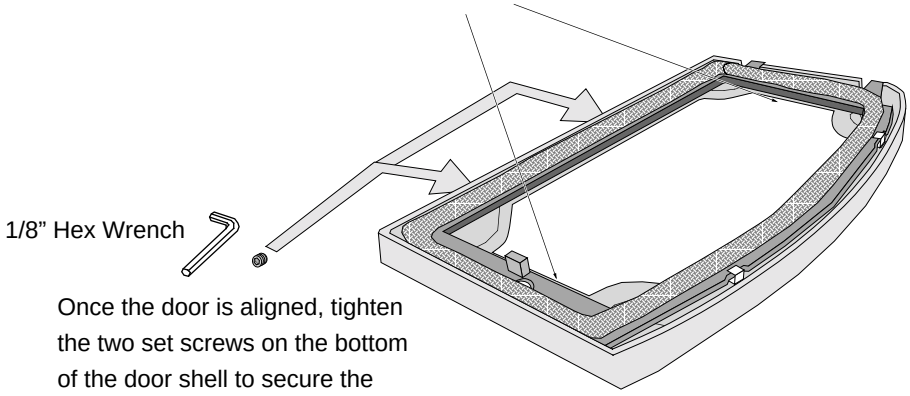

Standard Screwdriver
Rotate this shaft 1/4 turn clockwise until the door unlatches.
Swing the door retianer open. Remove and discard the shipping latch and nut.
Shipping Latch
Door Retainer
9/16" Wrench

2 Place the door shell face down on a non-scratching surface. Lift the door retainer off the hinges. Insert the retainer into the door shell following the directions below. Note how the door shell is guided into place



3 Attach the retainer to the shell following the directions below.

Make sure the door retainer is centered on the door shell.
You can gauge the alignment by looking at the gaps here.

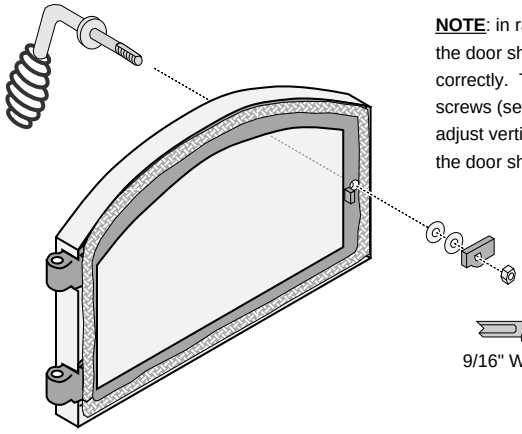


Once the door is aligned, tighten the two set screws on the bottom of the door shell to secure the door retainer.

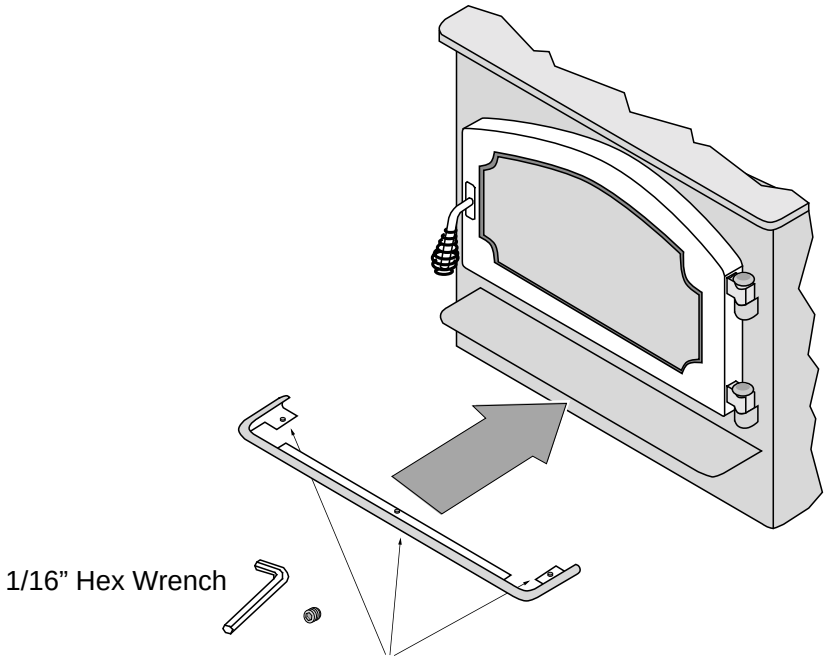
4 Attach the door handle following the directions to the right.

5 Replace the door on the hinges and latch the door.

6 Attach the ashlip trim following the directions below.



NOTE: in rare cases the door retainer may not line up with the door shell, preventing the door handle from lining up correctly. To adjust the position horizontally, loosen the set screws (see step 3) and adjust the door retainer position. To adjust vertically, remove the retainer and adjust the clips on the door shell (see step 2).



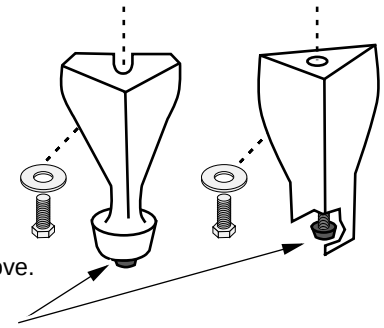
Slide the ashlip trim into place then tighten the three set screws on the bottom of the ashlip to secure.

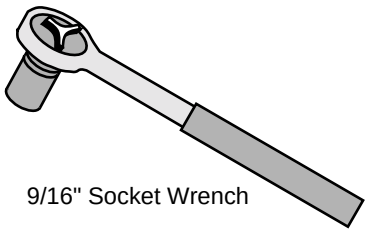
Stove Leg Installation

Part Numbers: Brass # 99200500, Cast Black # 99200800, Sculptured Steel # 99200105

- Raise the stove 8" (use lumber). Attach each leg following the instructions below.

Attach each leg to the stove by inserting a bolt and washer through the hole or slot in the leg and into the threaded hole on the stove.



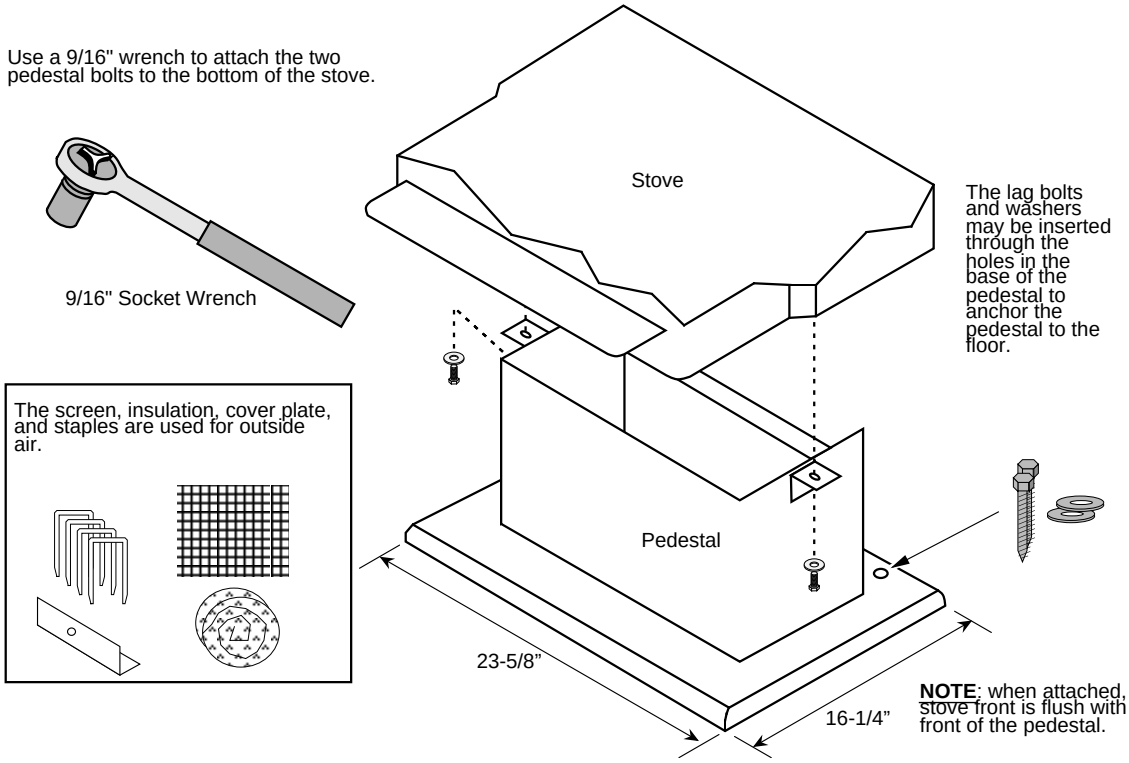


9/16" Socket Wrench

These rubber-tipped bolts are for leveling the stove. Make sure they contact the floor. Do not adjust with weight on the legs, the rubber tips may tear.

Pedestal (Part # 99200106)

If using outside air with the pedestal, follow the directions below under "Using Outside Air with the Pedestal" prior to installing the pedestal.

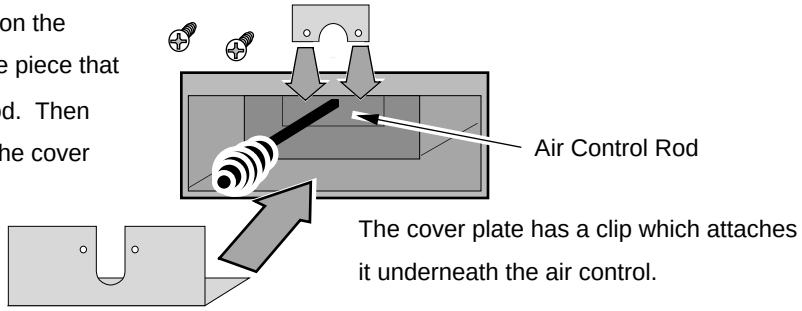

Use a 9/16" wrench to attach the two pedestal bolts to the bottom of the stove.
9/16" Socket Wrench
Stove
The lag bolts and washers may be inserted through the holes in the base of the pedestal to anchor the pedestal to the floor.
The screen, insulation, cover plate, and staples are used for outside air.
Pedestal
23-5/8"
16-1/4"
NOTE: when attached, the stove front is flush with the front of the pedestal.

Using Outside Air with the Pedestal

Before installing, check the section "Outside Air Requirements" 11 for installation concerns.

1. Determine the location of the outside air hole penetrating the floor (& hearth). The illustration above details the size of pedestal and its location in relation to the stove. The hole may be cut anywhere underneath the pedestal, as long as it is not within 2" of the outside perimeter of the pedestal, is at least 16 square inches in area, and does not interfere with structural members of the home. Place the rodent screen over the hole (above or below) and secure with staples.
2. Attach the stove to the pedestal with the included bolts. Tuck the included insulation underneath the side edges of pedestal to seal off any air from entering underneath the pedestal.
3. Install the cover plate following the directions below (use the cover plate that is 6-1/2" wide). The cover plate prevents combustion air from entering the front of the stove.

Remove the two screws on the cover plate to remove the piece that fits over the air control rod. Then replace the piece when the cover plate is in place.

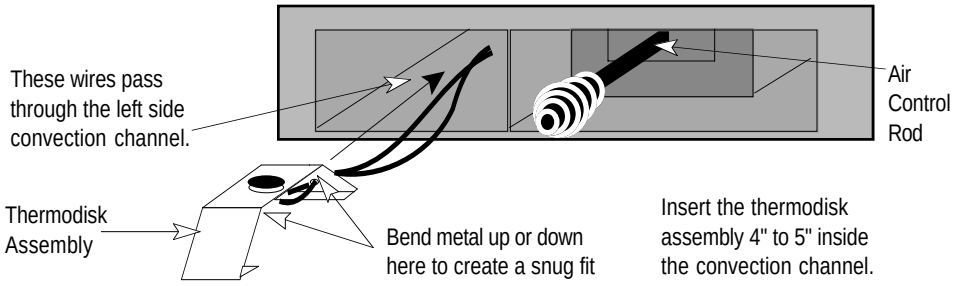


Rear Blower Installation (Part # 99000138)

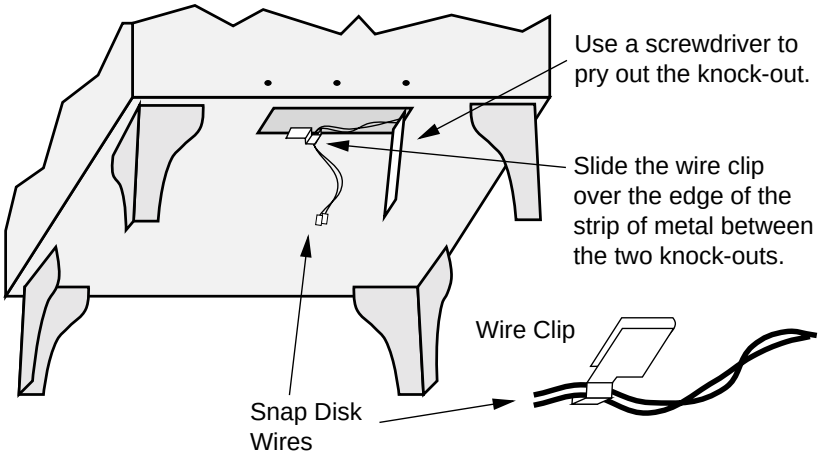
The rear blower improves heat transfer by pushing heated air through the convection channel. Operating instructions are described in the section "Blower Operation".

1 The stove should be in place with the legs installed prior to installing the rear blower.

2 Follow the directions below to install the thermodisk.


These wires pass through the left side convection channel.
Air Control Rod
Thermodisk Assembly
Bend metal up or down here to create a snug fit
Insert the thermodisk assembly 4" to 5" inside the convection channel.

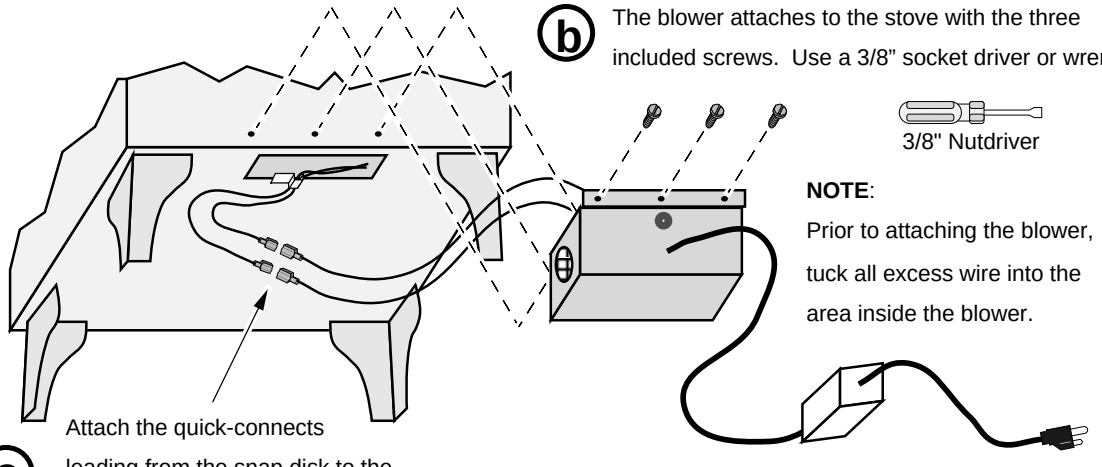
3 Install the wire clip following the directions below.


Use a screwdriver to pry out the knock-out.
Slide the wire clip over the edge of the strip of metal between the two knock-outs.
Wire Clip
Snap Disk Wires

Feed the two snap disk wires into the eye of the wire clip. Remove all slack from the wire, making sure not to dislodge the snap disk. Pinch the eye of the wire clip to secure the wires.

WARNING:
To prevent electrical shock, the wires must be secured so they do not contact the firebox above the convection channel.

4 Attach the blower following the directions below.



b The blower attaches to the stove with the three included screws. Use a 3/8" socket driver or wrench.

3/8" Nutdriver

NOTE:
Prior to attaching the blower, tuck all excess wire into the area inside the blower.

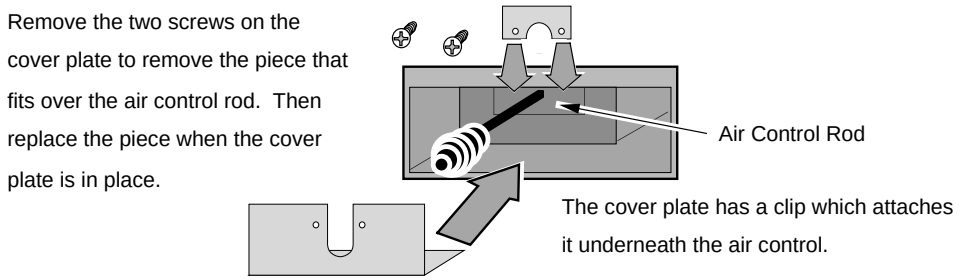
a Attach the quick-connects leading from the snap disk to the quick-connects from the blower (orientation does not matter).

c Plug the power cord into a 110 V. outlet after installing the blower.

Outside Air Boot Installation (Part number 99200134)

The outside air boot routes outside air to the stove for combustion. Refer to the section "Outside Air Requirements" for installation concerns. The directions below detail installation.

1 Install the cover plate following the directions below (use the cover plate that is 6-1/2" wide). The cover plate prevents combustion air from entering the front of the stove.

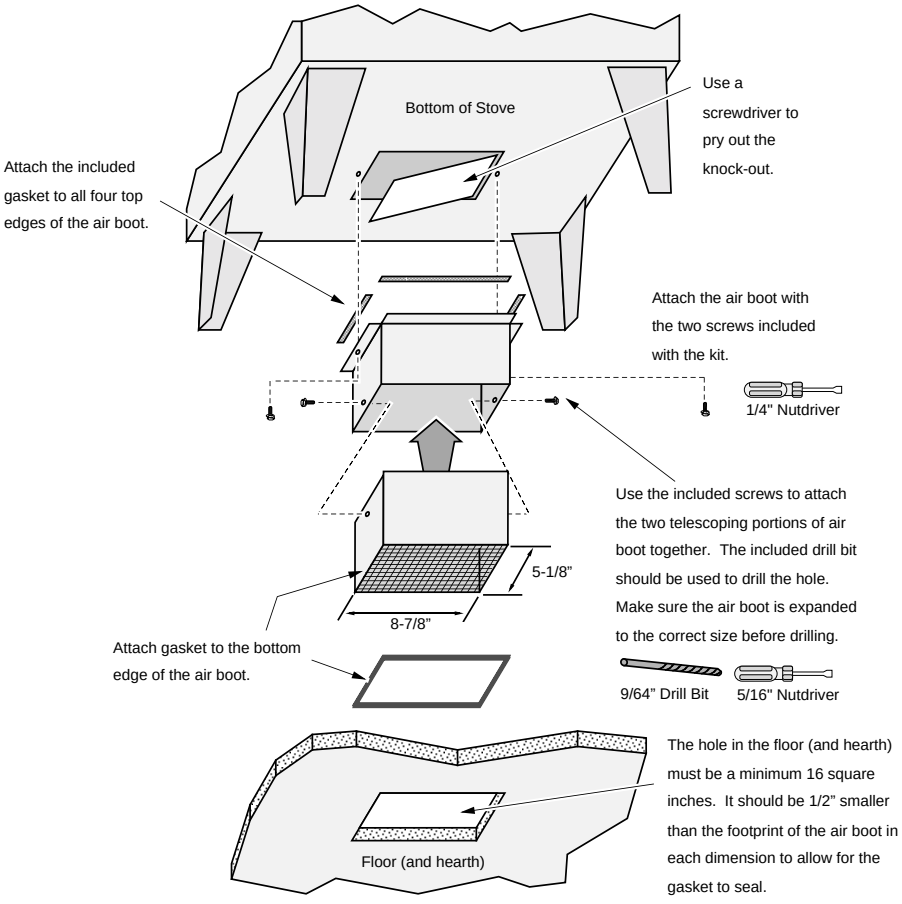

Remove the two screws on the cover plate to remove the piece that fits over the air control rod. Then replace the piece when the cover plate is in place.
Air Control Rod
The cover plate has a clip which attaches it underneath the air control.

2 Refer to the illustration below to determine the location and size of the hole penetrating the floor and hearth. The knock-out (which is pre-removed) is 6-3/8" behind the face of the stove - it is 8" wide and 4-1/4" deep. Cut the hole prior to locating the stove.

3 Attach gasket to the bottom edge of the lower air boot section (near the screen). Attach gasket on top of the flanges on the upper air boot section. Slide the two sections together with both seams facing the rear (do not attach the two sections at this time).

4 Follow the directions below for attaching the upper section of the air boot (with gasket) to the stove.

5 Slide the lower section down until it contacts the hearth. Attach the two sections together following the directions below

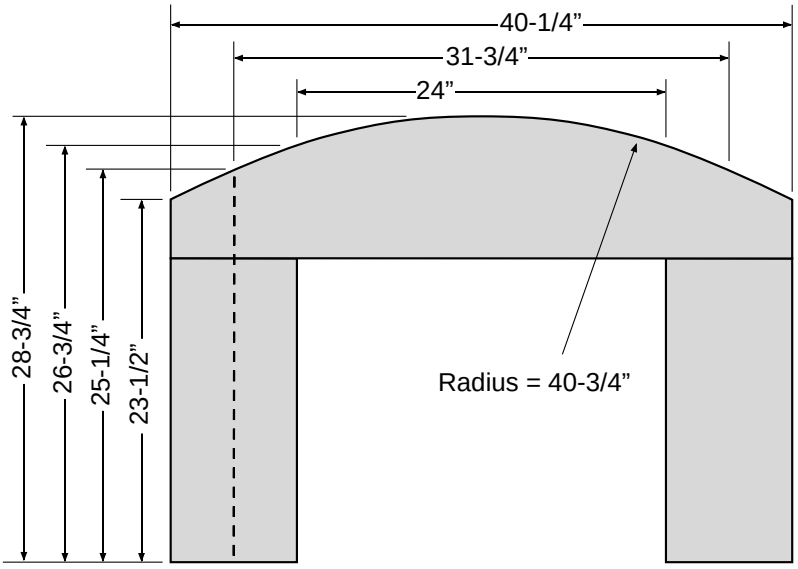

Bottom of Stove
Use a screwdriver to pry out the knock-out.
Attach the included gasket to all four top edges of the air boot.
Attach the air boot with the two screws included with the kit.
1/4" Nutdriver
Use the included screws to attach the two telescoping portions of air boot together. The included drill bit should be used to drill the hole. Make sure the air boot is expanded to the correct size before drilling.
5-1/8"
8-7/8"
Attach gasket to the bottom edge of the air boot.
9/64" Drill Bit
5/16" Nutdriver
The hole in the floor (and hearth) must be a minimum 16 square inches. It should be 1/2" smaller than the footprint of the air boot in each dimension to allow for the gasket to seal.
Floor (and hearth)

Surround Panels

Rectangular Panels:

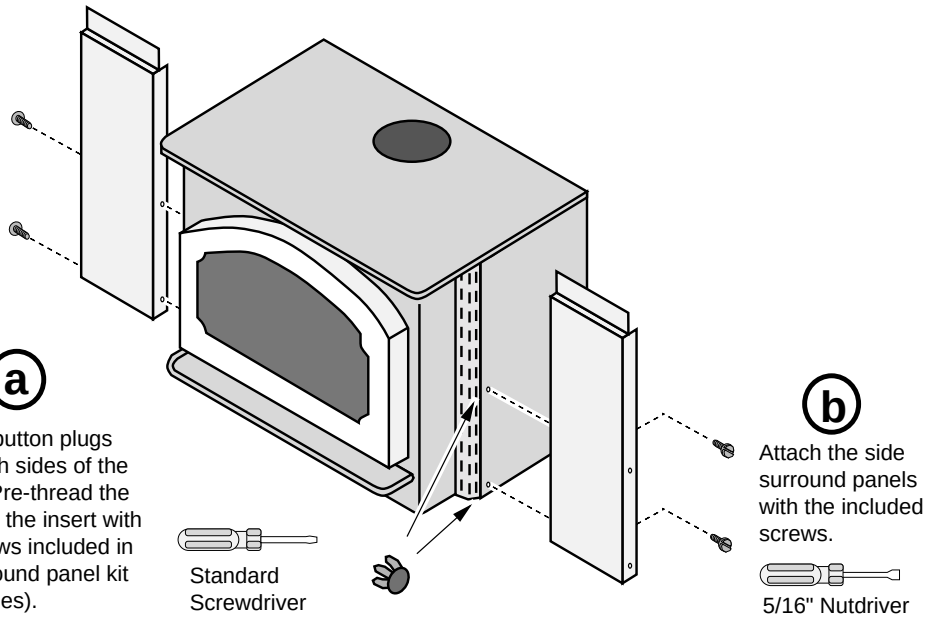
SURROUND PANEL SIZE	HEIGHT	WIDTH	
8"	28-1/4"	40-1/8"	
10"	30-1/4"	44-1/8"	

Arched Panels (Part # 99300108)

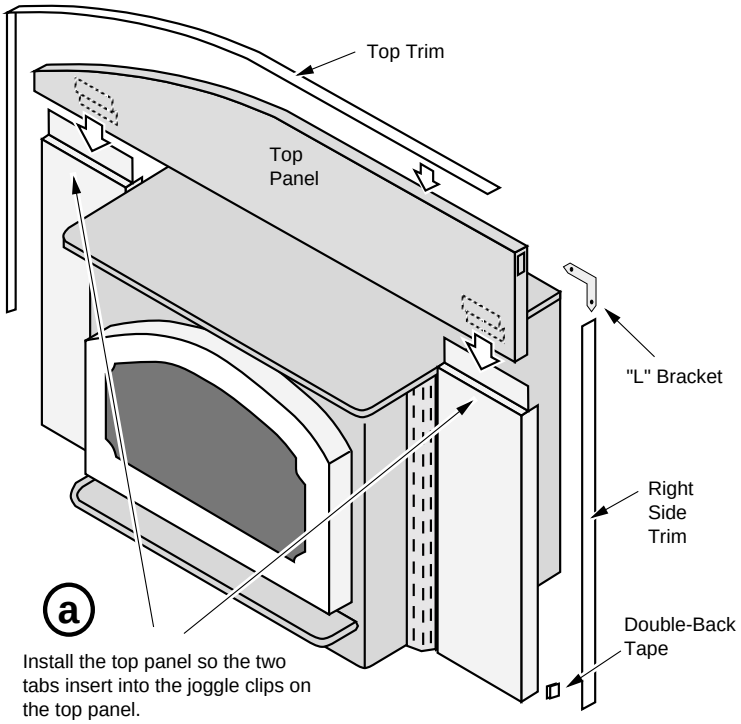


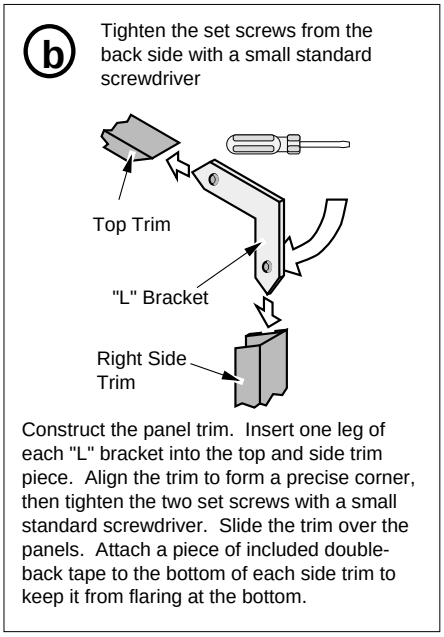
Installation Instructions

1. With the insert 12” from the fireplace, install the side surround panels (see the directions below).


a
Pry the button plugs from both sides of the insert. Pre-thread the holes on the insert with the screws included in the surround panel kit (both sides).
Standard Screwdriver
b
Attach the side surround panels with the included screws.
5/16" Nutdriver

2. Adjust the position of the side panels so they are: 1) flush with the bottom of the insert; 2) both the same distance back from the front of the insert; 3) perpendicular to the floor (use the top panel, if necessary, to judge alignment). Tighten the screws that hold the side panels in place.
3. Place the insert into the fireplace and connect the flue (if using a positive or direct connection). Install the top panel and trim following the directions below.


Top Trim
Top Panel
"L" Bracket
Right Side Trim
Double-Back Tape
a
Install the top panel so the two tabs insert into the joggle clips on the top panel.


b
Tighten the set screws from the back side with a small standard screwdriver
Top Trim
"L" Bracket
Right Side Trim
Construct the panel trim. Insert one leg of each "L" bracket into the top and side trim piece. Align the trim to form a precise corner, then tighten the two set screws with a small standard screwdriver. Slide the trim over the panels. Attach a piece of included double-back tape to the bottom of each side trim to keep it from flaring at the bottom.

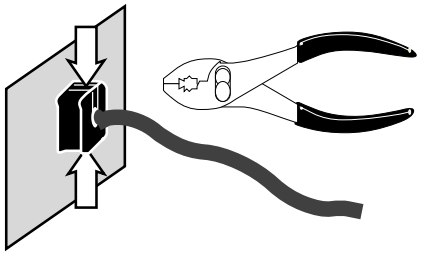
Insulation Installation (required only for face seal installations)

1. With the insert drawn 6" from the fireplace, glue the insulation strip included with the insert to the back of the panels using RTV silicon or stove gasket cement. The insulation should be installed so it overlaps the fireplace opening to form a seal between the panels and the fireplace face. Let the silicon or cement dry.
2. Push the insert into the fireplace, allowing the insulation to form a seal between the panels and the fireplace. Use a screwdriver to tuck any exposed insulation behind the panels.

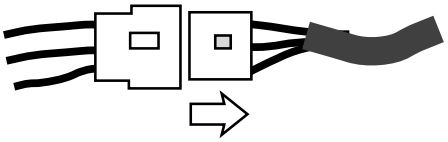
Front Blower (part # 99000133)

To Switch The Power Cord To The Left Side:

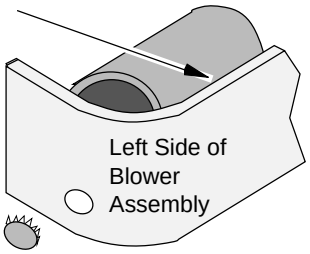
Use a pair of pliers to disconnect the strain relief which holds the power cord in place. With the power cord slackened, the molex connectors that attach the power cord to the blower assembly may be disconnected. Pry the button plug from the left side of the blower assembly and insert it into the hole on the right side. Pull the left side molex connector out from behind the deflection plate and cut the nylon tie that holds the wire back. Insert the molex connector on the power cord through the hole on the left side of the blower assembly and attach it to the left side molex connector. Route the wire directly behind the blower cage. Place the strain relief over the power cord (it should be in the same location on the power cord that it was before – approximately 2" from where the wires split). Insert the strain relief into the hole on the left side until the strain relief locks in place. Make sure the power cord, wires, or molex assembly do not protrude into the opening of the blower.



Remove the strain relief by squeezing it from the top and bottom with a pair of slip-joint pliers.



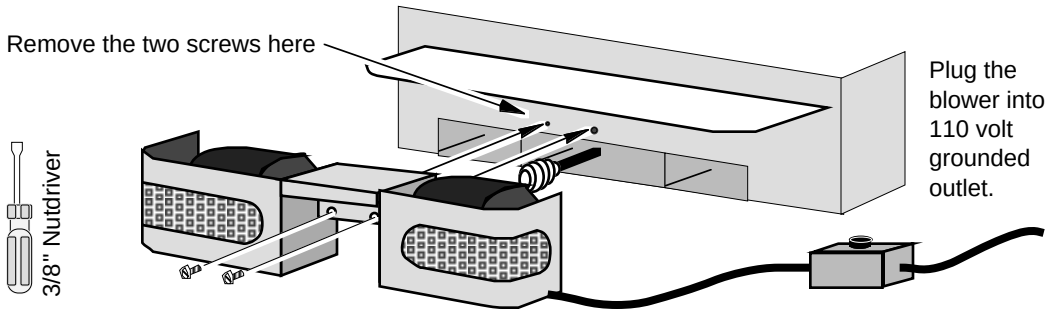
Disconnect the molex plug inside the blower assembly. Remove the power cord by pulling it out of the hole exposed by removing the strain relief.



Remove the button plug from the left side and insert it into the hole on the right side.

Installation Instructions

1. Remove the two screws above the air control and beneath the ashlip. Place the blower assembly underneath the ashlip and replace removed the two screws. Before tightening the screws with a 3/8" nutdriver, lift the blower up so it tucks underneath the ashlip.



Use a 3/8" nutdriver to replace the two screws and hold the front blower to the appliance.

2. Plug the power cord running from the control box into a grounded 110 volt electrical outlet.

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